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GRADUATE COURSES

1897-98

A Handbook for Graduate Students

ANNOUNCEMENTS OF ADVANCED COURSES OF INSTRUCTION OFFERED BY
TWENTY-THREE COLLEGES AND UNIVERSITIES OF THE UNITED
STATES, WITH VALUABLE ADDITIONAL INFORMATION.

PROCEEDINGS OF THE ANNUAL CONVENTION
OF GRADUATE CLUBS

PUBLICATION AUTHORIZED BY THE FEDERATION OF GRADUATE CLUBS

C. A. DUNIWAY, Harvard, *Editor-in-Chief*

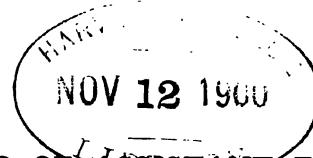
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1897

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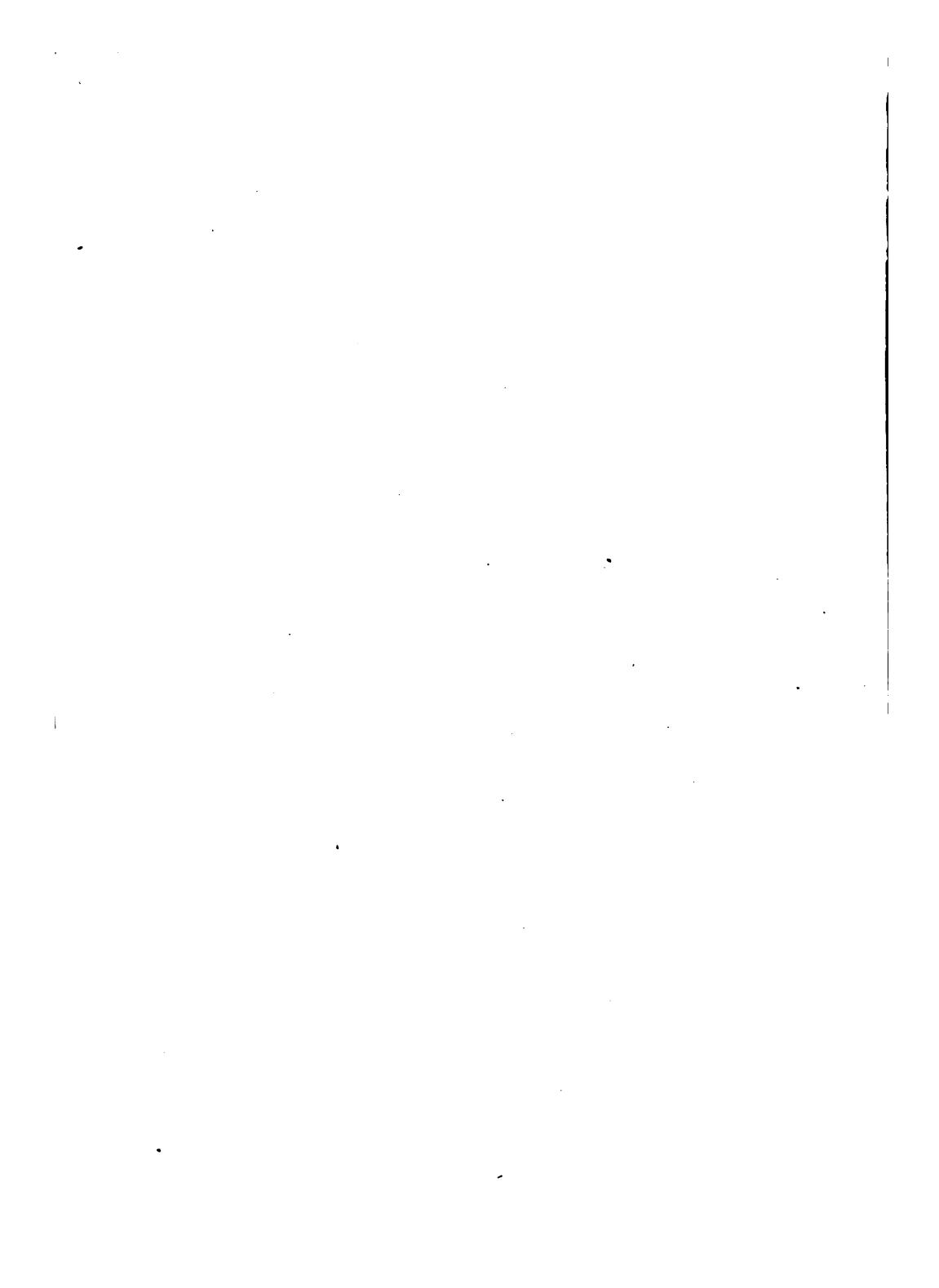
This fifth annual issue of the Handbook of Graduate Courses follows in general the methods of previous editions. The aim continues to be to give simply essential facts, without attempting to supplant the detailed publications issued by the several colleges and universities. The officers whose names and addresses are given in the introductory sketches in the following pages will send complete announcements to all applicants.

The Handbook is the official organ of the Federation of Graduate Clubs. An extended abstract of the proceedings of the last Convention of the Federation is therefore included in the compilation.

Full control of the Handbook is vested in the Publication Committee of the Federation. The Committee is constituted by the election of an Editor-in-Chief by the annual convention, and by the choice of an Assistant Editor by the Graduate Club in each of the institutions whose courses appear in the book. Several new applications for the inclusion of courses have been received, but the action of the Committee has been uniformly unfavorable. Most of the Editors adopt the conservative attitude of expecting a considerable development of graduate instruction before admitting the courses of any additional institution.

It is a matter for great regret that circumstances quite beyond the control of the Editor have conspired to delay publication a month beyond the anticipated date. Seniors and Graduate Students should have the use of the Handbook in the last weeks of the collegiate year, before June 1st.

CAMBRIDGE, June 15th.



The Federation of Graduate Clubs.

PROCEEDINGS OF THE ANNUAL CONVENTION, WITH REPORTS OF COMMITTEES, AND LISTS OF OFFICERS.

The Convention of the Federation of Graduate Clubs met with the Johns Hopkins Club in Baltimore on December 29th, 1896, and continued its sessions during two days. Besides visiting graduate students, the regular delegates present were twenty-eight in number, representing Barnard, Brown, Bryn Mawr, Chicago, Clark, Columbia, Cornell, Harvard, Johns Hopkins, Michigan, Missouri, New York, Pennsylvania, Princeton, Radcliffe, Wellesley, Western Reserve, Wisconsin, and Yale.

On behalf of Johns Hopkins University, President D. C. Gilman delivered the address of welcome to the Convention. His remarks were reminiscent of the discouragements which had met him when a young man seeking graduate instruction in American colleges. He welcomed the Convention both as an evidence of the great development that had taken place during forty years and as a promise of the continued growth of the university spirit among American students.

REPORT OF THE EXECUTIVE COMMITTEE.

The report of the Executive Committee of the Federation was then read by President F. L. Luqueer, of Columbia. He submitted in the first place a general view of the numbers and distribution of the graduate students represented by the Federation. In the twenty-four colleges or universities mentioned in the tabular list of the last Handbook there were 3,204 graduate students, of whom 650, or a little over one-fifth, were women. In the same institutions there were

1,103 instructors offering graduate instruction. This means, in whole numbers, one instructor for every three students—surely a generous proportion. As regards the courses of study, those grouped under Philosophy and Ethics seem to be most in favor, 519 students taking some of those courses.¹ If five groups be formed of these subjects, and calculations made of the relative amount of interest taken in each group, the results show that language and literature studies are the most popular, and mathematical sciences the least sought after.² To make these figures more concrete, the graduate students may be thought of as forming one ideal student and then as studying all five groups. Suppose, further, this ideal student's working day is eight hours. Then the division of his time among the five groups would be as follows :

	Hrs. Min.
I. Language and literature studies.....	2 50
II. Historical and social sciences.....	1 39
III. Philosophical studies.....	1 26
IV. Natural sciences.....	1 8
V. Mathematical sciences.....	53

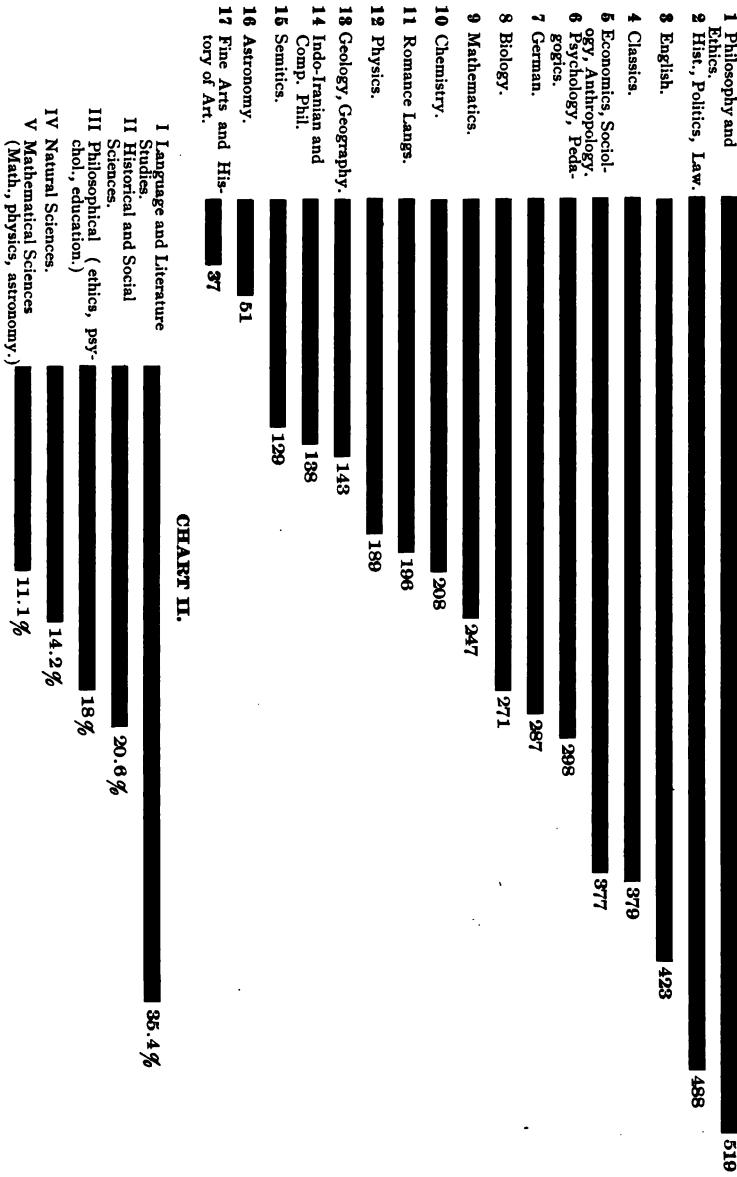
All this is encouraging to those who would keep university work in close touch with the so-called humanities—with the social and spiritual side of life. These figures indicate something of the amount of natural, unforced interest called forth by the various subjects, inasmuch as graduate study is so entirely elective. They may serve, also, as a help in indicating the time to devote to different subjects in the college programmes.

Since the last Convention the organization of four new Graduate Clubs had been reported—namely, those of Clark, Wellesley, Indiana, and Missouri. For the reason that natural growth is better than forced growth, no effort was made to form clubs among colleges not represented in the Federation. Reports from the officers of various

¹ The accompanying Chart I. gives the comparative numbers taking each group of studies.

² Chart II. represents the results graphically.

CHART I.



clubs showed that they were, in general, enjoying an active existence of great utility to their members. In some cases the tendency to unite in departmental clubs narrowed the field of the inclusive club. The committee recommend that at least a part of the officers of a club for each ensuing year should be chosen in the spring, or should hold over until the autumn. This would give stability and continuity of life. They recommend also that more complete and regular reports should be made to the Federation by the secretary of each club.

Quoting from Dean Pierce's Report of the Harvard Graduate School, the committee call special attention to the culture-use of graduate study. The graduate school should never be a machine for turning out men stamped with degrees. Aside from its bread-winning aspect, the training of graduate students fits them especially to be leaders in widening the world's intellectual life. They become associated and identified with the movement of the current of learning. Their union in this Federation is an early manifestation of that associative impulse. The Federation is the graduate student made social and human.

REPORT OF THE PUBLICATION COMMITTEE.

Mr. C. A. Duniway, of Harvard, for the Publication Committee, reported in detail on the issue of the Handbook of Graduate Courses for 1896-97. The applications of Northwestern, Tulane and Wellesley having received the affirmative votes of a majority of the committee, their courses had been admitted to the Handbook. The financial statement showed a balance on hand for the use of the committee. After some discussion of the status of the Handbook, and of methods of its publication, Mr. Duniway was reëlected Editor-in-Chief.

Professor Maurice Bloomfield, of Johns Hopkins, addressed the Convention on "Breadth," as an element in graduate study.

REPORT OF THE COMMITTEE ON DEGREES.

The report of Dr. H. T. Lukens, formerly of Clark, now of Bryn Mawr, for the Committee on Degrees, gave the results of an extended

investigation carried on during the year. It pointed out that the degree of Doctor of Philosophy is distinctively a German specialist's degree. It is almost unknown in England, and marks the influence of German ideas in the development of our higher education. Yale introduced the degree into the United States in 1860, and Harvard began using it in 1871. Protests against the abuse of honorary degrees, and especially against the debasement of the doctor's degree in the United States, began nearly thirty years ago. President Gilman, at that time professor in Yale College, wrote to the *Nation* that "the mode in which honorary degrees are conferred in this country is a sham and a shame." In July, 1881, the American Philological Association, meeting in Cincinnati, adopted the following resolutions:

WHEREAS, Many colleges in the United States have, in recent years, conferred the degree of Doctor of Philosophy, not by examination, but *honoris causa*; be it

Resolved, that this Association deprecates the removal of this degree from the class to which it belongs (namely B.D., LL.B., M.D., and Ph.D., degrees conferred after examination), and its transfer to the class of honorary degrees.

After this protest, the Ph.D. degree was, nevertheless, conferred as an honorary degree by Princeton, Amherst, Michigan, Lafayette, Dartmouth, Hamilton, Madison, Union, Dickinson, Western Reserve, Wisconsin, North Carolina, DePauw and the University of the City of New York.

In 1889 Charles Foster Smith, Professor of Greek in Vanderbilt University, read a paper before the National Educational Association, giving statistics on honorary degrees and quoting from Presidents Gilman and Woolsey. The value of the Ph.D. degree was discussed, and statistics were given showing the colleges giving it as a honorary degree, in the report of the Commissioner of Education for 1889-90. The *Educational Review* denounced the practice in an editorial in 1892, and proposed to publish lists of colleges persisting in the abuse. At the International Congress on Education in Chicago, in 1893, William O. Sproull, Dean of the University of Cincinnati, read a paper on the conditions on which the degree of Doctor of Philosophy should be given. A committee of six college presidents was appointed to coöperate with other educational and scientific bodies to protect

the significance of the degrees of Ph.D. and Sc.D. As the Congress that appointed the committee has disbanded, the committee has done nothing. Four years ago the General Conference of the Methodist Episcopal Church constituted a board called "The University Senate," which controls courses of study, etc., of all colleges that are recognized by the Church. Their regulations on degrees are advisory only, but the "College Association of the Methodist Church" has adopted their suggestions. The following is the action taken :

Resolved, That it is the sense of this body : (1) That the Ph.D. degree should not be given as an honorary degree ; (2) that in order to become a candidate for the Ph.D. degree, the applicant shall have taken the B.A. degree from a college whose curriculum requires four years of work in addition to three years preparatory work, beyond the English branches ; (3) that the applicant be required to pass a preliminary examination in both French and German, showing that he has such a reading knowledge of these languages as shall make them serviceable in his preferred line of investigation ; (4) that, in case the work is to be done in residence, the minimum of time be two years, and if done in part in *absentia*, the last year being resident, that the work in *absentia* should then cover a period of at least two years, and be done under such circumstances as will give the candidate access to libraries and other facilities for thorough work ; (5) that the final test shall be a thesis which shall show original work, the examination before the faculty to be given only upon the condition that the thesis presented shows satisfactory work ; and (6) that the post-graduate work done in the professional schools should not be credited in the period of working for the degree.

At the meeting of Affiliated Clubs of Graduate Students, held in New York City, April 23, 1893, an address was issued to the governing boards of American universities, emphasizing the importance of uniformity in the requirements for the doctor's degree, and deprecating the giving of honorary Ph.D. The Convention of Graduate Students, meeting in New York City, April 16, 1895, adopted resolutions defining the conditions on which the doctor's degree in philosophy should be granted and condemning the giving of the master's degree or the doctor's degree, either *honoris causa* or *in absentia*. These resolutions were published in the Handbook of Graduate Courses for 1895-96.

For many years New York and Pennsylvania have been among the chief States conferring the doctorate in philosophy as an honorary degree, as witness the following table :

HONORARY PH.D.

Years,	1888	1889	1890	1891	1892	1893	1894	1895
In whole U. S., . . .	29	50	39	30	36	32	33	34
In N. Y. and Pa., . .	14	21	11	15	14	15	10	10

In New York, however, the law of 1892 put the control of these higher institutions completely under the Board of Regents. They issue blank forms requiring full information as to degrees conferred, and publish lists of all recipients of honorary degrees. The requirements, of course, reduce materially the honorary degrees conferred and remove much of the cause for criticism. On October 15, 1896, the Regents adopted ordinances defining the term "college," forbidding "cut rate" courses in preparatory schools, and *absolutely prohibiting after January 1, 1897, the granting of A.B., or Ph.D. honoris causa.* In Pennsylvania, too, the period for honorary Ph.D. is probably almost closed. During the last eight years the State has averaged over five honorary Doctors of Philosophy annually. While Pennsylvania at present does not require the colleges to furnish lists of recipients of honorary degrees, the State Superintendent, in a recent letter, states that he sees no objection to such a requirement and believes it would help to check abuses.

The President of the University of Washington informs us that there is "an association of college presidents of the Northwest, one of whose objects is to lead to the more careful and conscientious use of academic honors."

The present is an opportune time to act in this matter. In response to a circular of inquiry in regard to the granting of honorary degrees, out of a hundred colleges answering the circular, only eleven failed to oppose most emphatically the honorary Ph.D.; and these eleven admit that the practice has been greatly abused. In answer to the request for rules governing the granting of honorary degrees, several colleges sent regulations to be observed in the *formal application for such degrees by the candidates themselves;* and one college president acknowledged that his institution had been so overrun by applicants

that he advised the postponement of all, and the appointment of a committee to draft rules. The colleges for women throughout the country have set a good example in refusing to confer honorary degrees. Very few have at any time been guilty of the practice. Nor is it the weaker institutions of the West and South that have abused the privilege. On the contrary, the abuse has been most prevalent in New York, Pennsylvania and Ohio, with occasionally a spasm of inflation in New Jersey and Illinois, and in 1895 the fever struck Maryland, Alabama and Indiana. Referring to the following table, showing the ratio between Ph.D. degrees given *honoris causa* and those given on examination, we find that the ratio is gradually but almost uniformly decreasing, in 1894-95 being but little more than one-third what it was in 1889.

PH.D. DEGREES GRANTED IN THE UNITED STATES.

Years,	1888	1889	1890	1891	1892	1893	1894	1895
On examination, . . .	106	121	125	136	152	189	233	234
Honoris causa, . . .	29	50	39	30	36	32	33	34
Ratio Hon. Ph.D., Exam. Ph.D., .	27%	41%	31%	22%	24%	17%	14%	15%

RESOLUTIONS ON HONORARY DEGREES.

The following resolutions, embodying the recommendations of the Committee, were adopted by the Convention after long and earnest discussion :

Resolved, That it is the sense of this Convention,

1. That it is inexpedient for any institution to give the same degrees *honoris causa* as it grants in regular course on examination.
2. That in every case the reasons for bestowing an honorary degree should be openly avowed, and should be stated in the programme of the commencement exercises and in the annual catalogue.
3. That Bachelor degrees are inappropriate as honorary degrees or *ex gratia*, and should be made to signify always the completion of a recognized grade of undergraduate work in their respective departments.
4. That the Master's degree should never be granted except for resident graduate study, of at least one year's duration, tested by adequate examination.
5. That the minimum requirements for the degree of Doctor of Philosophy should be as follows :

- a. The previous attainment of a Bachelor's degree or its equivalent.
- b. The completion of at least two years of resident graduate study; not more than one year, however, to be required in residence at the institution conferring the degree.
- c. Adequate examinations and a thesis embodying the results of original research. Such thesis should bear the written acceptance of the professor or department in charge of the major subject and should be accompanied by a short biography of the candidate.

6. That the degrees of Ph.D., Sc.D., M.D., and Pd.D., should never be given *honoris causa* nor *in absentia*. L.H.D., S.T.D., D.W., LL.D., D.C.L., and Mus.D., are recognized as honorary degrees.

The Tuesday evening session of the Convention took the form of a reception tendered by the Johns Hopkins Graduate Club. Professor Ira Remsen spoke on "Academische Freiheit."

Wednesday morning Mr. Truitt, of Pennsylvania, read the report of the Committee on Migration, prepared by Professor W. A. Lamberton. An inquiry covering six eastern colleges showed that at the present time very little migration of graduate students is taking place. A choice once made of the institution in which to pursue graduate study is apt to be final. Such migration as there has been has taken place between the close of the undergraduate and the opening of the graduate course.

COMMITTEES APPOINTED.

Several committees were authorized to investigate certain questions and prepare reports for the next Convention of the Federation. To continue the work on migration the following committee was appointed: Mr. Truitt, of Pennsylvania; Mr. J. H. MacCracken, of New York; Mr. C. A. Duniway, of Harvard; Mr. W. H. King, of Columbia; Mr. C. H. Prettyman, of Johns Hopkins. Investigation of honorary degrees will be carried on by Mr. C. A. Duniway, of Harvard; Mr. Mayo, and Mr. F. L. Tufts, of Columbia. Data on uniformity in requirements for the degree of doctor of philosophy will be gathered by Mr. L. N. Gray, of Missouri; Mr. J. H. MacCracken, of New York, and Mr. Cook, of Princeton, and they are requested to propose some plan to make requirements equal. The

matter of printing theses previous to the granting of degrees will be investigated by Mr. C. W. L. Sites, of Columbia ; Mr. W. M. Strong, of Yale ; Mr. Albert Le Fevre, of Cornell, and Dr. Isabel Maddison, of Bryn Mawr.

Officers of the Federation for the year 1897-8 were elected as follows :

President, MR. J. D. FORREST, Chicago.

First Vice-President, MR. J. H. BOVNTON, Harvard.

Second Vice-President, MISS M. M. KINGSBURY, Barnard.

Third Vice-President, MR. J. H. CLUTZ, Johns Hopkins.

Recording Secretary, MR. H. E. BOLTON, Wisconsin.

Corresponding Secretary, MISS MARY BARTOL, Michigan.

Treasurer, MR. J. H. MACCRACKEN, New York.

THE OFFICERS OF THE GRADUATE CLUBS.

The following list of the chief officers of the Graduate Clubs affiliated in the Federation of Graduate Clubs presents the results of reports received by May 1, 1897.

The Barnard Graduate Club.

Organized in 1895.

Pres., HELEN C. ANNAN.

V. Pres., ALICE M. KEYS.

Sec., MABEL HURD.

Treas., MABEL PARSONS.

The Graduate Club of Brown University.

Organized in 1890.

Pres., A. C. ELY, Brown.

V. Pres., F. E. WHITAKER, Brown.

Rec. Sec., MISS M. S. PECK, Brown.

Cor. Sec., R. H. DAY, Brown.

Treas., W. A. ROBINSON, Brown.

The Bryn Mawr Graduate Club.

Organized in 1893-4.

Pres., FRANCES LOWATER, Newnham, Eng. *V. Pres.*, EMILIE N. MARTIN, Bryn Mawr.

Sec., ELLEN S. OGDEN, Univ. of Nashville. *Treas.*, MINNIE ELIZABETH HIGHET, Victoria and Cornell.

THE OFFICERS OF THE GRADUATE CLUBS.

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The Graduate Club of the University of California.

Organized in September, 1895.

Pres., E. N. PROUTY, Tabor. *V. Pres.*, MISS S. M. LINSCOTT, Nevada.
Sec.-Treas., MISS M. M. DELANY, California.

The Graduate Club of the University of Chicago.

Pres., J. D. FORREST, Hiram. *V. Pres.*, V. P. SQUIRES, Brown.
Rec. Sec., AMY TANNER, Michigan. *Cor. Sec.*, ELIZABETH FAULKNER, Old U.
Treas., MAUDE B. RADFORD, Chicago. [of Chicago.]

The Students' Association of Clark University.

Organized January 24, 1896.

Pres., E. W. RETTGER, Indiana. *V. Pres.*, F. W. BOHANNON, Indiana.
Sec.-Treas., MAURICE H. SMALL, Colby.

The Graduate Club of Columbia University.

Organized in November, 1893.

Pres., F. S. HALL. *V. Pres.*, HERBERT M. JOHNSTON.
Sec., MILO R. MALTBIE. *Treas.*, C. M. LACEY SITES.

The Graduate Students' Club of Cornell University.

Reorganized in 1895.

Pres., ALEX. MEIKLEJOHN, Brown. *1st V. Pres.*, GRACE P. CONANT, Bates.
2d V. Pres., S. J. BARNETT, U. of Denver. *Sec.*, MISS H. S. POOLE, Smith.
Treas., J. F. SNELL, Toronto.

The Graduate Club of Harvard University.

Organized in February, 1889.

Pres., J. H. BOYNTON, Harvard. *V. Pres.*, J. E. LOUGH, Miami.
Sec., S. W. CABELL, Miami. *Treas.*, H. R. MEYER, Harvard.

The Graduate Students' Association of the Johns Hopkins University.

Hon. Pres., PROF. WILLIAM B. CLARK. *Pres.*, C. E. WATERS, Johns Hopkins.
V. Pres., JULIAN HUGUENIN, Charleston. *Sec.*, S. A. MITCHELL, Queens.
Treas., W. N. BERKELEY, St. John's.

The Graduate Club of the University of Michigan.*Organized January 20, 1894.*

Pres., MARY G. WILLIAMS, Michigan. *V. Pres.*, ARNOLD L. DAVIS, So. Dakota.
Sec.-Treas., DUANE R. STUART, Michigan.

The Graduate Club of the University of Minnesota.*Organized in 1895.*

Pres., E. P. HARDING. *V. Pres.*, JOSEPHINE E. TILDEN.
Sec., JOHN BERG. *Treas.*, C. M. ANDRIST.

The Graduate Club of the New York University.*Organized February 14, 1895.*

Pres., GEORGE OSBORN, N. Y. U. *V. Pres.*, WILLIAM E. STAUB, Bucknell.
Sec., FRANK H. PINE, Michigan. *Treas.*, KARL SCHWARTZ, Syracuse.

The Graduates' Club of Northwestern University.

Pres., MRS. F. B. EMBREE, Northwestern. *V. Pres.*, OTTO H. SWEZEE, Lake Forest.
Sec.-Treas., GEORGE BOOTH, Northwestern.

The Graduate Club of the University of Pennsylvania.*Organized November 23, 1893.*

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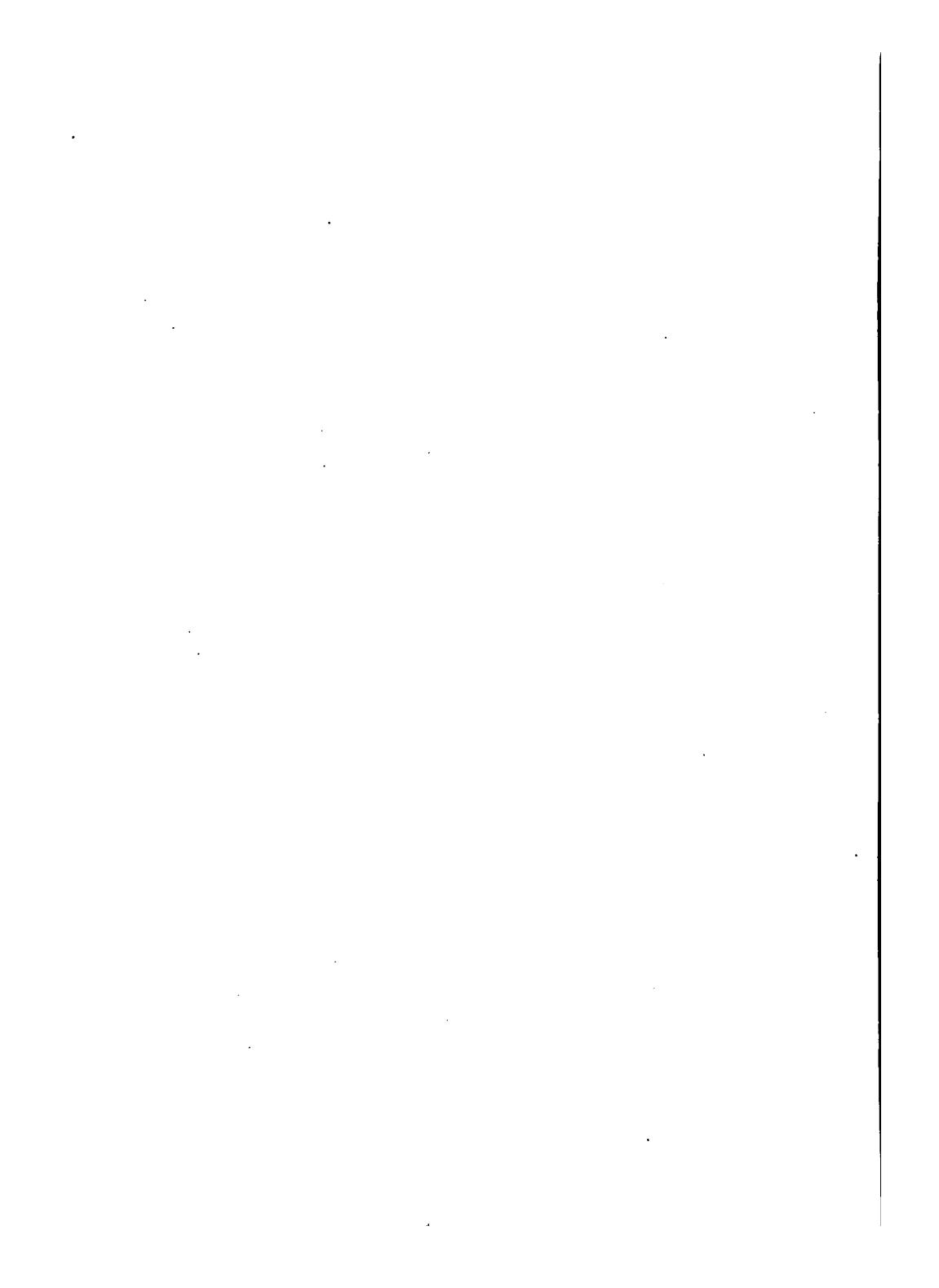
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$$a_0 x^{n_0} \frac{d^2 z}{dx^2} + a_1 x^{n_0-1} \frac{dz}{dx} +$$

$$[a_2 x^{n_0-2} + a_3 x^{n_1}] Z = 0$$

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and Terence.

INTRODUCTORY.

BARNARD COLLEGE.

Barnard College duplicates for women the undergraduate course of Columbia and registers graduate students for work under the University Faculties. All degrees are conferred by Columbia. Students have full privileges in the University Library. Seniors and graduate students attend lectures at Columbia under the Faculty of Philosophy. Graduate instruction under the Faculties of Political Science and Pure Science is given at Barnard.

All general academic statements made by Columbia apply equally to Barnard. EMILY JAMES SMITH, Dean. Address MRS. N. W. LIGGETT, Registrar, New York City.

BROWN UNIVERSITY.

The University was founded by the Philadelphia Baptist Association in 1764, the first commencement being held in September, 1769. For the year ending April 15th, 1896, the endowment yielding interest was \$1,177,966.78. The income for current expenses, exclusive of special funds, etc., was \$130,059.87. Degrees were first granted to graduates from the Graduate Department in 1889. The advanced degrees of Master of Arts and Doctor of Philosophy are conferred. By a graduate course is meant one primarily intended for those who have already attained one of the academic degrees. Women are admitted on the same terms as men, but undergraduates are instructed in separate classes.

The year begins on the third Wednesday in September, is divided into three terms, and ends on the third Wednesday in June. E. BENJAMIN ANDREWS, President. Address FREDERICK T. GUILD, Registrar and Secretary of the Faculty, Providence, R. I.

BRYN MAWR COLLEGE.

Founded in 1880 with the endowment of Dr. Joseph W. Taylor, the College opened in the autumn of 1885. The realized endowment, excluding buildings and grounds, is about \$1,000,000. The College is an "institution for the advanced education of women." It admits four classes of students: graduates, undergraduates, special students and hearers. Special students must have passed the examination for matriculation. Hearers attend courses by the consent of the several instructors and receive certificates from them only. The Graduate Department was organized in 1885. Degrees of Master of Arts and Doctor of Philosophy are granted. A graduate course is one which presupposes a minor, major and post-major undergraduate course (*i. e.*, three years of undergraduate instruction), and to which only students that have the A.B. degree, or its full equivalent, are admitted.

The year is divided into semesters. For 1897-8 the first begins on September 28th, and the second on February 7th. M. CAREY THOMAS, President. Address MADELINE VAUGHAN ABBOTT, Secretary, Bryn Mawr, Pa.

UNIVERSITY OF CALIFORNIA.

Founded by an act of the Legislature in 1868. The University is a State institution, having an income of about \$420,000. Graduate instruction has been carried on since 1874. The following degrees are granted: Master of Arts, Master of Letters, Master of Science, Doctor of Philosophy. Graduate courses presuppose a full undergraduate training, and are chiefly intended to develop professional scholars and specialists who shall be able to carry on original research. Women are admitted on equal terms with men.

The year is divided into two terms. For 1897-8 the terms extend from August 9th to December 18th, and from January 10th to May 18th. MARTIN KELLOGG, President. Address JAMES SUTTON, Recorder of the Faculties, Berkeley, California.

UNIVERSITY OF CHICAGO.

Founded by John D. Rockefeller in 1890, the University was opened October 1, 1892. The realized endowment at the end of the last fiscal year was \$4,000,000. The income was \$590,000. Assets of the University, including funds subscribed and those now in hand, exceed \$10,000,000. The Graduate School was organized in 1892. The degrees of Master of Arts, Master of Science, Doctor of Philosophy and Doctor of Science are granted, and may be conferred at the end of any quarter. No definition of a graduate course is given. Most advanced courses are open to suitably prepared juniors and seniors, as well as to graduates. Women are admitted on the same terms with men.

The year is divided into quarters beginning on the 1st of July, October, January, and April. **WILLIAM R. HARPER**, President. Address **THE UNIVERSITY EXAMINER**, Chicago, Illinois.

CLARK UNIVERSITY.

Founded in 1887 by Jonas G. Clark, the University was opened in October of 1889. It admits only graduate students and confers only one degree, that of Doctor of Philosophy. Its courses presuppose a knowledge of what is usually required by the best colleges in each department as a condition of the degree of A.B. Women are not admitted.

The year begins October 1st. **G. STANLEY HALL**, President. Address **LOUIS N. WILSON**, Clerk, Worcester, Mass.

COLUMBIA UNIVERSITY.

Founded in 1754 by a charter from George II., and originally called "King's College." The receipts for the last fiscal year were \$761,925.93; expenditures, \$810,186.45. Reorganized in 1890 on the German plan, and name changed from Columbia College to Columbia University in 1896. Among the University Faculties offering advanced courses of study and investigation are those of Political Science, Philosophy, and Pure Science. These courses lead,

through the Bachelor's degree, to the university degrees of Master of Arts and Doctor of Philosophy. Students have matriculation privileges at Union Theological Seminary and the Teachers' College.

The year is divided into two half-years. For 1897-8 these begin October 4th and February 14th. It is expected that the work in all the schools and departments of the University, except in the School of Medicine, will be begun in October, 1897, at the new site upon Morningside Heights. Address SETH LOW, President, New York City.

CORNELL UNIVERSITY.

Founded in 1865, and endowed with New York's apportionment of public lands under the Morrill Land Grant Act, in addition to large gifts from Ezra Cornell, the University was opened in 1868. For the year ending August 1, 1896, the endowment was \$9,787,-445.89, and the income \$525,703.59. Graduate instruction has been given since 1868, the first advanced degree being conferred in 1870. There is a separately organized Graduate Department, the work being in charge of a University Faculty Committee on Graduate Work. Degrees of Master of Arts and Doctor of Philosophy are conferred. Cornell does not define a graduate course. Most of the elective courses are open to both graduates and undergraduates. Women are admitted on the same terms with men.

The year is divided into three terms. For 1897-8 these begin September 20th, January 3d and April 5th. JACOB GOULD SCHURMAN, President. Address D. F. HOY, Registrar, Ithaca, N. Y.

HARVARD UNIVERSITY.

Founded in 1636 by the vote of the General Court of Massachusetts. The realized endowment at the close of the fiscal year 1895-6 was \$8,381,581.83. Income was \$1,140,022.25. The Graduate Department was organized in 1872. The degrees of Bachelor of Arts, Master of Arts, Doctor of Philosophy and Doctor of Science are open to such students in the Graduate School as have been accepted as

qualified for candidacy. The Faculty of Arts and Sciences distributes its courses into three groups, those intended primarily for undergraduates, those for graduates and undergraduates, and those primarily for graduates. The courses in the second group are largely recommended to graduate students. The policy of the University is to draw no hard and fast lines between the groups, but to admit into any course students qualified to pursue it, irrespective of their academic standing. Women are not admitted, but many courses are open to Radcliffe graduate students.

The year is divided into two half-years. For 1897-8 these begin September 30th and February 14th. CHARLES WILLIAM ELIOT, President. Address RICHARD COBB, Corresponding Secretary, Cambridge, Mass.

JOHNS HOPKINS UNIVERSITY.

Founded in 1867, through the munificence of Johns Hopkins, lectures being first delivered in 1876. Expenditures in 1894-5 were about \$170,000. University instruction is offered to advanced and graduate students whether candidates for a degree or not. The only advanced degree conferred is Doctor of Philosophy. The aim of graduate courses is "that while a student is becoming familiar with the work prosecuted and the results obtained elsewhere, and is adding to his general culture, he may be encouraged to become himself an independent and original investigator in his chosen field of labor." The University does not admit women, except in the medical department.

The year is divided into two terms, beginning in October and February. D. C. GILMAN, President. Address T. R. BALL, Registrar, Baltimore, Md.

LELAND STANFORD JUNIOR UNIVERSITY.

Founded in 1885 by Leland Stanford and Jane Lathrop Stanford, his wife, the University was first opened to students October 1st, 1891. It has a permanent landed endowment of 90,000 acres, has

received \$2,500,000 by the terms of the will of Mr. Stanford, and upon the death of the co-founder will become heir to the remainder of his estate. The expenditures of the past fiscal year amount to about \$225,000. The degrees of Master of Arts and Doctor of Philosophy are conferred for courses of advanced work beyond the undergraduate requirements in the various departments. Women are admitted on the same footing with men.

The year is divided into two semesters, the first beginning early in September, the second early in January. DAVID STARR JORDAN, President. Address O. L. ELLIOTT, Registrar, Stanford University, California.

UNIVERSITY OF MICHIGAN.

Founded in 1837, by an Act of the Legislature of Michigan, as a part of the public instruction. The first of its departments was opened in 1841. Its endowment is \$540,000. The income of the last fiscal year was \$397,782.57. The Graduate School was organized in 1892. The degrees of Master of Arts, Master of Science, Master of Philosophy, Master of Letters, Doctor of Philosophy and Doctor of Science are conferred. No definition of a graduate course is given, but no elementary work in any subject is allowed to count as graduate work. Women are admitted on the same terms with men.

The year is divided into two semesters, beginning October 1st, and about February 15th. JAMES B. ANGELL, President. Address PROF. P. R. DEPONT, Registrar, Ann Arbor, Mich.

UNIVERSITY OF MINNESOTA.

Originally organized by an Act of the Territorial Legislature in 1851, the University was made the "State University" in 1857. Instruction in the college classes was first given in September, 1868. The annual income is about \$270,000. The Graduate Department was definitely organized in 1895-6. The following advanced degrees are conferred: Master of Arts, Master of Science, Master of Literature and Doctor of Philosophy. A graduate course is understood to be the continuous, systematic pursuit of some topic not offered to un-

dergraduates, and of a more advanced character than work required for a Bachelor's degree. Women are admitted on the same terms with men.

The year is divided into three terms. For 1897-8 these begin September 7th, November 30th and March 2d. CYRUS NORTHROP, President. Address PROF. JABEZ BROOKS, Minneapolis, Minnesota.

NEW YORK UNIVERSITY.

Founded in 1831. Instruction began in 1832. Income for fiscal year, \$140,000. The Graduate School was organized in 1886. Degrees of Master of Arts, Master of Philosophy, Master of Science, Doctor of Philosophy and Doctor of Science are conferred. By a graduate course the University means specialized work by a graduate student under the direction of a professor in such amount as may fitly occupy about one-half of the student's time for an academic year. Graduate courses are given either at the University Building at Washington Square or at University Heights, the site of the University College. All courses are open to students holding Bachelor's degrees. Women are admitted to the courses of the Graduate School on the same terms with men.

The year consists of eight months of work, with an intermission of ten days during holiday time. The year begins October 1st. HENRY M. MACCRACKEN, Chancellor. Address THE REGISTRAR, Washington Square, New York.

NORTHWESTERN UNIVERSITY.

Founded in 1851 and opened in November, 1855. The income, exclusive of special funds, is about \$300,000. The degrees of Master of Arts, Master of Science, Master of Philosophy, Master of Letters and Doctor of Philosophy are conferred. In addition to the courses open exclusively to graduates, certain of the undergraduate courses are also open to them. Women are admitted to the classes on the same terms as men.

The year at present is divided into three terms. It is probable

that the year will be divided into two parts, commencing with the year 1897-8. For 1897-8 the year begins September 16th, and the registration of graduate students must be effected at a date not later than the first Monday in October. HENRY WADE ROGERS, President. Address PROFESSOR CHARLES B. ATWELL, Registrar, Evanston, Illinois.

UNIVERSITY OF PENNSYLVANIA.

Founded as the Charitable School in 1740 and becoming the "College and Academy of Philadelphia" in 1751, it was amalgamated with the University of the State of Pennsylvania under its present title in 1791. The Graduate Department (under the title "Department of Philosophy") was organized November 17th, 1885. The degrees of Master of Arts, Master of Science and Doctor of Philosophy are conferred. Courses in the Department of Philosophy are entirely distinct from the undergraduate work and are intended for persons desirous of continuing their studies upon lines more strictly defined and specialized. They are such as are not represented at all in the undergraduate work, but presume a full college course as a basis. Women are admitted to all the courses in this department on the same terms with men. The courses are given by the same instructors and lead to the same degrees.

The year is divided into two terms, beginning October 1st and February 1st. CHARLES C. HARRISON, Provost. Address WILLIAM R. NEWBOLD, Dean of the Department of Philosophy, Philadelphia, Pa.

PRINCETON UNIVERSITY.

First charter granted October 22nd, 1746. A second and more ample charter was granted in 1748, and this was confirmed and renewed after the Revolution. On October 22nd, 1896, the one hundred and fiftieth anniversary of the signing of the first charter, the title of Princeton University was assumed. Within the last few years the instruction which had been given to graduate students by many of the professors of the College was systematized and the Graduate Department was constituted. In connection with this department the

degrees of Doctor of Philosophy, Doctor of Science and Master of Arts are offered. This department is at present under the care of a committee of the Faculty. Women are not admitted.

The year is divided into two terms of eighteen weeks each. For 1896-7 these begin September 23d and February 11th. FRANCIS LANDEY PATTON, President. Address PROFESSOR WM. F. MAGIE, Princeton, N. J.

RADCLIFFE COLLEGE.

Radcliffe College, the successor of the Society for the Collegiate Instruction of Women, offers systematic collegiate instruction to women under the professors and other teachers of Harvard University. The requirements for admission are identical with those for admission to Harvard College. The courses of instruction given in Radcliffe College correspond to both undergraduate and graduate courses offered by Harvard University, and are more than sufficient to enable a woman to perform the work required by the University for the degrees of Bachelor of Arts and Master of Arts. In addition to these, graduate students in Radcliffe College now have access to sixty-two graduate courses in Harvard University. The examinations are the same in both institutions, and the diplomas conferring the degrees of Bachelor of Arts and Master of Arts are countersigned by the President of Harvard University as a guarantee that these degrees are equivalent to the corresponding degrees given by the University.

The arrangement of the academic calendar corresponds to that of Harvard. MRS. LOUIS AGASSIZ, President. Address MARY COES, Secretary, Cambridge, Mass.

VANDERBILT UNIVERSITY.

Founded in 1873 by the munificence of Cornelius Vanderbilt. The general endowment is \$1,085,000; total assets, \$1,882,000; yearly expenditures, \$110,000. Graduate work has been carried on from the beginning. Degrees of Master of Arts, Master of Science, Doctor of Philosophy and Doctor of Science are conferred. Any course is considered as graduate work which extends beyond the re-

quirement for a Bachelor's degree and which can be counted on higher degrees. All advanced courses are open also to suitably prepared undergraduates. Women are admitted as "students by courtesy." They are not formally matriculated, but are recommended for degrees by the Faculty on completion of course.

The session begins September 15th and ends June 15th. There are two terms, the second beginning February 1st. J. H. KIRKLAND, Chancellor. Address WILS WILLIAMS, Bursar, or W. M. BASKERVILL, Secretary of the Committee on University Instruction, Nashville, Tenn.

WELLESLEY COLLEGE.

Wellesley College received a charter in 1870, and was opened in 1875, for the purpose of furnishing to young women advantages and facilities for a liberal education. The College comprises the Academic Department and the School of Music. Each of these has its special faculty, and all are under the direction and control of the President of the College and the Board of Trustees. In the Academic Department the degrees of Bachelor of Arts and Master of Arts are conferred. The work of graduate students is under the direction of a committee appointed from the Faculty of the College.

The academic year consists of thirty-five weeks, and begins on the Wednesday following the fourteenth of September. The year is divided into two semesters. President, JULIA JOSEPHINE IRVINE. Address MARY ETTE GORHAM, Secretary, Wellesley, Mass.

WESTERN RESERVE UNIVERSITY.

Founded in 1826 as Western Reserve College. Its property is valued at \$2,500,000, and its receipts from funds during the past fiscal year amounted to \$125,000. The Graduate School was established in 1892. The Degrees of Master of Arts and Doctor of Philosophy are conferred. All courses open to Graduate Students are considered graduate courses, but starred courses are available only as minors. The College for Women is a Department of the University, and women are admitted to the Graduate School on the same terms as men.

The year is divided into two semesters, beginning September 23d, 1897, and January 3d, 1898. CHARLES F. THWING, President. Address R. W. DEERING, Dean of the Graduate School, Cleveland, Ohio.

UNIVERSITY OF WISCONSIN.

Founded by the State in 1849 and reorganized in 1866. The expenditures for 1895-6 were \$403,376.13. Income for 1895-6 is \$422,922.55. The Graduate Department, which had hitherto consisted mainly of advanced courses given in connection with the various schools, was separately organized in 1895. The degrees of Master of Arts, Master of Letters, Master of Science and Doctor of Philosophy are conferred. Graduate courses are especially intended to encourage research, and graduate instruction in the several departments presupposes generally the full undergraduate courses—required and elective—in such departments. Women are admitted on the same terms with men.

The year is divided into two semesters. For 1897-8 these begin September 29th and February 14th. CHARLES KENDALL ADAMS, President. Address W. D. HIESTAND, Registrar, Madison, Wis.

YALE UNIVERSITY.

Founded in 1701 by a charter from the General Court of Connecticut, which endowed the college with an annual grant. Funds, exclusive of grounds, buildings and collections, amount to about \$5,000,000. Expenditures in 1895-6 were over \$700,000. Graduate instruction was definitely organized in 1847. The advanced degrees of Master of Arts and Doctor of Philosophy are conferred. Women are admitted on the same terms with men to courses leading to the Doctor's degree.

The year is divided into two terms. For 1897-8 these begin September 30th and January 4th. TIMOTHY DWIGHT, President. Address ANDREW W. PHILLIPS, Dean of the Graduate School, New Haven, Conn.

EXPLANATORY.

In brief the plan of these lists of Graduate Courses is as follows :

- (1) To use convenient general titles for grouping courses on related subjects, difficulties of classification being met by cross references.
- (2) To bring together (within the several departments), under the name of each instructor, all his advanced courses in the particular departments.
- (3) To put all the work of each instructor into a form for ready reference by adding a full index of names.
- (4) To present brief collegiate biographies of instructors. The omission of these facts in not a few cases has been by request.
- (5) To state the numbers of Graduate Students who have taken courses in each department during 1896-7, thus giving an index of the amount of graduate work actually going on. A Graduate Student often takes courses in two or more departments; such student counts once in each of those departments.
- (6) To mention special facilities in each department of the several institutions, with the fellowships and scholarships open to Graduate Students.
- (7) To give all the advanced courses definitely offered by each instructor, using short titles, and indicating the number of hours of appointment with the instructor for each course. The number of hours per week is put in small Roman, the number of weeks in Arabic numerals. A dash, followed by a mark of interrogation, calls attention to the absence of specific information. Unless months are given, a course usually extends from September or October to May or June (inclusive). The abbreviations for the names of the months are as follows : Ja., F., Mar., Ap., My., Jun., Jul., Au., S., O., N., D.
- (8) To enclose in brackets all courses not to be given in 1897-8. Bracketed courses usually may be expected in 1898-9.
- (9) To mark with the asterisk all courses "not designed primarily for Graduate Students." It should be borne in mind that "Graduate work" in each institution is conditioned by local plans of administration, as well as by the previous preparation of Graduate Students. The marking of a course with an asterisk simply means that (under the conditions prevailing in his institution) the instructor does not offer the course with a primary purpose of meeting the needs of Graduate Students. But the inclusion of the course in these lists indicates that it is often useful in such students.
- (10) To combine in a tabular view statistics of instructing bodies, of registration of Graduate Students, of higher degrees conferred in 1895, and of libraries; with concise statements of the requirements for advanced degrees, of fees exacted of Graduate Students, and of fellowships and scholarships open to them.



ADDENDA.

[The following notes contain corrections and additions received too late to be inserted in regular order in the Handbook.]

BARNARD.

Page 94. F. M. Cole should read F. N. Cole.

BROWN.

Page 90. Insert under the name of W. C. Poland :

A.B., Brown, '68, and A.M., '71; Instr., Brown, '70-5; Asst. Prof. Gk. and Latin, same, '76-'88; Assoc. Prof. Gk., same, '88-'92; Dir. Am. School at Athens, '91-2.

BRYN MAWR.

Page 58. L. Witmer's course on Psychology runs 30 wks., instead of half the year. Also, he offers this course :

*Child Study. ii, 30.

CHICAGO.

Page 11. Omit the name and courses of F. W. Shipley.

Page 59. Under C. H. Thurber add this course :

Problems of Secondary Education. ii, 36, O.-Jun.

Page 59. Insert :

F. A. MANNY, Asst. in Pedagogy.

A.B., Mich., '93, and A.M., '96.

Relation of School to Society. iv, 6, Jul.-Au.

Page 59. Under John Dewey add this course :

Hist. of Education. iv, 12, O.-D.

Page 59. G. H. Mead's course in Methodology of Psychology should be bracketed.

Page 59. Insert :

DR. S. F. MACLENNAN.

A.B., Toronto, '93; Ph.D., Chicago, '96.

Lab. course in Psychology. iv, 6, Jul.-Au.
Child Study. iv, 6, Jul.-Au.

Page 67. Under A. M. Wergeland add this course :

Hist. of the Medieval City. iv, 24, O.-Ap.

Page 81. T. B. Veblen's course in Socialism is to run 24 wks., from Ja. to Jun. His course in Pol. Econ. (el) should be omitted.

Page 81. Insert :

FREDERIC W. SANDARS, Lect. in Statistics.

A.B., Col. City, N. Y., '83; A.M., Harvard, '92; Ph.D., Chicago, '95; Univ. Exten. Lecturer, Chicago, '96-7.

Statistics. iv, 12, O.-D.

Co-operation. iv, 12, Ap.-Jun.

HERBERT J. DAVENPORT, Fellow in Pol. Econ.

Ph.B., Univ. South Dakota.

Descriptive Pol. Econ. v, 12, Ja.-Mar.

Princ. Pol. Econ. v, 12, Ap.-Jun.

Page 82. Insert :

LESTER F. WARD.

A.B., Columbia, '69; A.M., same: Asst. Geol., U. S. Survey, '81-8; Geol., same, '88.

Dynamic Sociology. vi, 4, S.-O.

Page 91. F. B. Tarbell's first course is to be given in Ja.-Mar. The Hist. of Gk. Sculp. should be omitted.

Page 91. W. Williams is Instr. and Director of Music.

Page 95. E. H. Moore offers this additional course:

Substitution Groups. iv, 12, O.-D.

His Groups Seminar meets iv, 24, Ja.-Jun.

Page 95. H. Maschke's courses in Linear Substitution Groups and Projective Geometry should be omitted. His Solid Analytics is given Ja.-Mar., and the Diff. Geom. in Ap.-Jun.

Page 96. Omit the name and course of J. H. Boyd.

Page 104. Kurt Laves is made an Instructor in Astronomy.

Page 126. C. C. Whitman should read C. O. Whitman.

Page 127. Insert :

BRADLEY M. DAVIS, Assoc. in Botany.

A.B., Stanford, '92; Ph.D., Harvard, '95; Asst. in Botany, Chicago, '95-6; Dir. of Botany, Marine Biol. Lab., Woods Holl.

Special Morph. of Algae. xii, 10, Ap.-Jun.

Research work in Morph. and Devel. of Cryptogams. —?

CHAS. J. CHAMBERLAIN, Asst. in Botany.

A.B., Oberlin, '88, and A.M., '94; Ph.D., Chicago, '97.

Histological Methods. iv, 12, Jul.-S.

CLARK.

Page 96. Seminaries meet one hour a week.

COLUMBIA.

Page 11. Omit E. F. Perry's course in Greek Dialects.

Page 12. E. F. Perry's course in Plato is open to Barnard students. For Phædo read Phædrus.

Page 12. Under J. R. Wheeler insert this course :

Intro. to Gk. Archæol. ii, 30. (With Dr. Young.)

Page 12. C. H. Young received an A. B. from Columbia in 1888. His course in New Testament Greek is open to Barnard students.

Page 53. Under Norman Wilde add : B(Æsthetics. i, 14, F.-Jun.

Page 60. Under L. Farrand add :

Anthropology. ii, 30.

Anthropology, Primitive Culture. ii, 30.

Page 139. Matter relative to A. J. Moses and his courses should read:

ALFRED J. MOSES, Prof. of Mineralogy.

E. M., Columbia, '82, and Ph.D., '90; Instr., '82-90; Adj. Prof., '90-7.

Descriptive and Determinative Mineralogy. Lects. ii, lab. iii, 1 yr., begin. in F. (With Dr. Luquer.)

Physical Crystallography. Lab. xii, 1 yr., or vi, 2 yrs.

Physical Crystallography. Lab. xii, 2 yrs.

CORNELL.

Page 47. Insert :

NATHANIEL SCHMIDT [see 1].

Comp. Semitic Philol. ii, 32.

Page 91. Insert :

ALEXANDER B. TROWBRIDGE, Prof. of Architecture.

B.S., Cornell, '90,

*Hist. of Architecture. iii, 32.

EUGENE P. ANDREWS, Curator of Museum of Casts.
A.B., Cornell, '95.
*Pausanias. ii, 32.
Archæol. Sem. ii, 32.

HARVARD.

Page 5. G. A. Reisner gives the courses in Assyrian (el), and Arabic (el). He offers also :

R) Babylonian Bilingual Hymns. Research. —?

MICHIGAN.

Page 35. Insert :

WARREN W. FLOMER, Instr. in Ger.
A.B., DePauw, '90; Ph.D., Cornell, '97.

*Lit. of the 16th Cent. ii, 34.

Page 99. W. W. Beman's courses should be changed to read as follows :

*Solid Analyt. Geom. ii, 17, O.-F.
Adv. Diff. and Integ. Calculus. ii, 34.

*Teachers' Seminary. ii, 34.
Higher Plane Curves. ii, 17, F.-Jun.
Diff. Equations. iii, 17, O.-F.
[Linear Diff. Equations. ii, 17, F.-Jun.]

Page 99. A. Ziwet is Junior Prof. of Math. His courses should be changed to read as follows :

Adv. Mechanics. ii, 17, O.-F.
*Adv. Mechanics. iii, 17, F.-Jun.
Partial Diff. Equations. ii, 34.

Page 99. J. L. Markley's courses should be changed to read as follows :

Theory of Functions. iii, 34.
[Theory of Numbers. ii, 34.]

*Projective Geom. iii, 34.

Page 99. J. W. Glover's courses should be changed to read as follows:

*Higher Algebra. iii, 34.
Theory of Substitutions. ii, 34.
Theory of Invariants. ii, 34.

NEW YORK.

Page 35. Under L. A. McLouth add :
Selected Plays of Hans Sachs. —?
Gotlinger Hain. —?

Page 87. For F. Russell read I. F. Russell.

PRINCETON.

Page 56. A. F. Ormond should read A. T. Ormond.

Page 88. W. M. Daniells should read W. M. Daniels.

Page 122. L. W. McKay should read L. W. McCay.

RADCLIFFE.

Page 18. J. B. Greenough offers this additional course :

* Practice in Latin Expression and Style (exposition and argument). i, 30.

WESTERN RESERVE.

Page 45. M. L. Colvin should read M. N. Colvin.

WISCONSIN.

Page 64. J. W. Stearns offers these additional courses :

Mod. Educa. Systems. iii, 18, S.-Ja.
Child Study. ii, 18, F.-Jun.

Page 64. An instructor, not yet appointed, will give the following :

*Foundations of Pedagogy. ii, 18, S.-F.

Page 89. R. T. Ely's Social Ethics should be bracketed.

Page 89. J. H. Raymond's Els. of Sociology is not designed primarily for graduates, while the Hist. Survey is so designed.

YALE.

Page 20. C. L. Kitchell should read C. L. Kitchel.

Page 30. H. A. Beers give these two additional courses:

*Modern Drama. ii, 32.
*Victorian Lit. ii, 32.

Page 30. Add:

W. L. PHELPS, Asst. Prof. of Eng.

A.B., Yale, '87; A.M., Harv., '91; Ph.D., Yale, '92; Instr. in Eng., Harv.

*Elizabethan Lit. ii, 32.

*Eng. Lit. of 17th Cent. ii, 32.

H. A. SMITH, Instr. in Eng.

A.B., Yale, '89.

*Eng. Lit. of 18th Cent. ii, 32.

*Eng. of 19th Cent. ii, 32.

Page 58. G. Gruener has been made Prof. of German.

Page 58. H. Davies offers this additional course:

Hist. of Æsthetics. i, 32.

I. LANGUAGES AND LITERATURES.

1. SEMITIC LANGUAGES AND LITERATURES.

[With Semitic History, Biblical Literature, Biblical and Patristic Greek and Latin.]

BARNARD.

2 Graduate Student, 1896-7.

[See Columbia Courses marked B.]

BROWN.

2 Graduate Students, 1896-7.

CHARLES F. KENT, Assoc. Prof. of Bibl. Lit. and Hist.

A.B., Yale, '89, and Ph.D., '93; Docent of Bibl. Lit., Chicago, '92-3; Instr., same, '94-5.

*Hebrew (el). iii, 33.

*Hebrew History. iii, 23, S.-Mar.

*Minor Prophets of Assyr. Period. iii, 11, Ja.-Mar.

*Wisdom Lit. of O. Test. iii, 10, Ap.-Jun.

*Arabic (el). i, 33.

*Assyrian (el). i, 33.

*Hist. Inscrips. of Sennacherib and Esarhaddon. iii, 23, S.-Mar.

BRYN MAWR.

8 Graduate Students, 1896-7.

Semitic Library of A. Amiaud of Paris.

G. A. BARTON, Assoc. in Bibl. Lit. and Semitic Langs.

A.B., Haverford, '88, and A.M., '85; A.M., Harv., '90, and Ph.D., '91.

Aramaic. ii, 30.

Ethiopic. ii, 15, F.-Jun.

Hebrew (adv). ii, 30.

Phoenician. ii, 15, O.-F.

Hist. of Israel from the Judges to the

Fall of Jerusalem, with a sketch of the life of Christ and of the Apostolic Age. ii, 30.

Historical Outlines of Christian Thought. i, 30.

N. Test. Textual Criticism. i, 15, O.-F.

CALIFORNIA.

2 Graduate Student, 1896-7.

JACOB VOORSANGER, Prof. of Semitic Langs. and Lits.

D.D., Amsterdam.

*Hebrew (el). iii, 32.

*Hebrew (adv). ii, 16, Au.-D.

*Aramaic (el). —?

CHICAGO.

117 Graduate Students, 1896-7; and 81 in Summer Quarter, '96.

Haskell Oriental Museum. Egypt. and Comparative Religions represented by large collections of originals; Assyro-Babylonian and Palestinian by casts and photographs. Oriental Lib. of 7,000 vols. 2 Pels. in Semitics, 2 in Theology, 2 in N. Test.

W. R. HARPER, President; Head Professor of Semitic Langs.

A.B., Muskingum Col., '70; Ph.D., Yale, '75; D.D., Colby; LL.D., Univ. of Neb.; Principal, Am. Inst. Sacred Lit.; Principal, the Chautauqua system.

Hebr. Gram. and Syntax (adv). iv, 6, Jul.-Au.

Hebr. Gram. and Etymology (adv). iv, 6, Au.-S.

The Psalter in English. iv, 6, Jul.-Au.

Chicago — *Continued.*

Hebr. Life and Thought to Time of Joshua. iv, 12, Jul.—S.
 Arabic. iv, 6, Au.—S.
 Hebr. Philos. and Ethics (Job, Prov., Eccl., and later Psalms). ii (Sunday), 12, Jul.—S.
 O. Test. Lit. and Hist. iv, 12, O.—D.
 Early Old Test. Traditions. iv, 12, O.—D.
 Later Suras of the Kurān. iv, 12, O.—D.
 *Hebr. Philos. and Ethics. iv, 12, Ja.—Mar.
 O. Test. Insts. and Laws. iv, 12, Ja.—Mar.
 [The Book of Job. iv, 12.]
 [Hebr. Life and Thought from Josiah to Ezra. iv, 12.]
 [Hebr. Life and Thought from Ezra to the Maccabees. iv, 12.]
 [The Hebr. Prophets. iv, 12.]
 [Prophecy and Hist. of Prophecy. iv, 12.]
 [Hebr. Poetic Lit. iv, 12.]

E. G. HIRSCH, Prof. of Rabbinical Lit. and Philos.
 A.B., Univ. of Pa., '72, and A.M., '75; Ph. D., Leipzig, '96.
 Talmud. iv, 12, Jul.—S.
 Rabbinical Commentaries on Genesis. iv, 12, Jul.—S.
 Hebr. Sight Reading. ii, 12, Jul.—S.
 Hist. of Jewish Sects. iv, 6, O.—N.
 Talmudic Analogy to N. Test. iv, 6, N.—D., also Ap.—Jun.
 Rabbinical Philos. iv, 24, O.—Mar.
 [Gen. Intro. to Rabbinical Lit. and Life. iv, 12.]
 [Civil and Crim. Legislation of Talmud. iv, 6.]

IRA M. PRICE, Assoc. Prof. of Semitic Langs. and Lits.
 A.B., Denison, '79; Prof. of Greek, Des Moines, '79—80; D.B., Bapt. Union Theol. Sem., '82; Instr. Amer. Inst. Hebrew, '82—4; Ph.D., Leipzig, '86; Instr. in Semitic Langs., Bapt. Union Theol. Sem., '86—8; Prof. Semitic Langs., '88—92.

Kings and parallel Assyr. records. iv, 6, Au.—S.
 Bk. of Jeremiah (Eng.). iv, 6, Au.—S.
 Hist. Hebr. Bks. of Samuel. iv, 6, Au.—S.
 Bk. of Judges. iv, 12, O.—D.
 Formation of Prophetic Bks. iv, 12, O.—D.
 Hebr. Lexicography. Sem. ii, 12, O.—D.
 Psalter. iv, 12, Ja.—Mar.
 Canon and Text of O. Test. iv, 12, Ja.—Mar.
 Isaiah. iv, 12, Ap.—Jun.
 Old Babyl. Inscriptions. iv, 12, Ap.—Jun.
 [Jeremiah. iv, 6.]
 [The Book of Job. iv, 6.]
 [Messianic Prophecy. iv, 12.]
 [Mod. Discoveries and the O. Test. iv, 6.]
 [O. Test. Interpretation. iv, 12.]
 [Hebr. Syntax. iv, 12.]

E. D. BURTON, Head Prof. of N. Test. Lit. and Interpretation.
 A.B., Denison, '76; Grad. Rochester Theol. Sem., '82; Assoc. and Prof. in Newton Theol. Inst., '83—92.
 Quotations in Paul's Epistles. iv, 6, Jul.—Au.
 Bk. of Colossians. iv, 6, Jul.—Au.
 Theol. of Synoptic Gospels. iv, 12, O.—D.
 Quotations in Gospels. iv, 12, O.—D.
 John. iv, 12, Ja.—Mar.
 Bk. of Hebrews. iv, 12, Ja.—Mar.
 [N. Test. Greek. iv, 12.]
 [N. Test. Syntax. iv, 12.]
 [Intro. to Synoptic Gospels. iv, 12.]
 [N. Test. Quotations from O. Test. iv, 12.]
 [Apostolic Fathers. iv, 12.]

S. MATHEWS, Assoc. Prof. of N. Test. Hist. and Interpretation.
 A.B., Colby, '84, and A.M., '87; Prof. of Hist. and Pol. Econ., same, '89—94.
 Social Hist. of Palestine. iv, 6, Ap.—S.
 Parallels of Jesus. iv, 6, Au.—S.

N. Test. Times in Palestine. iv, 12, O.-D.
 Sources of Life of Christ. iv, 12, O.-D.
 Life of Christ. iv, 12, Ja.-Mar.
 N. Test. Canon. iv, 12, Ja.-Mar.
 Christ. Lit. to Eusebius. iv, 12, Ap.-Jun.
 [N. Test. Times in Graeco-Roman World. iv, 12.]
 [Hist. of Apostolic Church. iv, 12.]
 [Life of Paul. iv, 12.]
 [Hist. of Interp. of N. Test. iv, 12.]

C. W. VOTAW, Instr. in N. Test. Lit.

A.B., Amherst, '88; D.B., Yale, '91; A.M., Amherst, '92; Ph.D., Chicago, '96; Docent, Chicago, '92-3; Associate, Chicago, '94-5.

N. Test. Greek. iv, 12, Jul.-S.
 Hist. of Apostolic Age. iv, 12, Jul.-S.
 Text. Criticism of N. Test. iv, 12, O.-D.
 Paul's Corinthian Epistles. iv, 12, O.-D.
 N. Test. Greek. iv, 12, Ja.-Mar.
 Jewish and Patristic Greek. iv, 12, Ja.-Mar.
 Teaching of Jesus. iv, 12, Ap.-Jun.
 Rapid Trans. and Interp. of Paul's Epistles. iv, 12, Ap.-Jun.

R. F. HARPER, Assoc. Prof. of Semitic Langs. and Lits.

A.B., Old Univ. of Chicago, '83; Ph.D., Leipzig, '86; Instr. in Semitics, Yale, '87-8, and '89-91; Assyriologist to the Expedition of the Babylonian Explora. Fund, '88-9.

Assyrian Lang. iv, 12, Jul.-S., also O.-D.
 Syriac Hist. Inscrips. iv, 12, Jul.-S., also O.-D.
 Deuteronomy. Hebr. Syntax. iv, 12, Jul.-S.
 Hebr. Sight Reading. iv, 12, Jul.-S.
 [Babyl. Hist. Inscrips. iv, 12.]
 [Babyl. Contracts. iv, 12.]
 [Assyrian Letters. iv, 12.]
 [Mesopotamian Geog. iv, 6.]
 [Assyr. and Babyl. Life. iv, 6.]

J. H. BREASTED, Instr. in Egyptology and Semitic Langs.; Asst. Dir. of Haskell Museum.

A.B., Northwestern, '88; A.M., Yale, '92; non-res. Fellow, Chicago, '92-4; A.M. and Ph.D., Berlin, '94; Asst. in Egyptology, Chicago, '94-6.

Hist. of Egypt. v, 6, Jul.-Au.
 Arabic Prose Reading. iv, 12, Jul.-Au.
 Hist. Hebr. iv, 6, Au.-S.
 Arabic Hist. Reading. iv, 12, Ja.-Mar.
 Egyptian Archæol. iv, 12, Ja.-Mar.
 Arabic Geog. iv, 12, Ap.-Jun.
 Hieroglyphic Texts. iv, 12, Ap.-Jun.

C. E. CRANDALL, Univ. Extens. Instr. in Semitic Langs.

A.B., Milton Col., '79, and A.M., '85; D.B., Bapt. Union Theol. Sem., '85; Asst. in Semitics, Yale, '89-91; Ph. D., same, '91.

Hebr. Lang. iv, 6, Jul.-Au.
 Hist. Hebr. Samuel. iv, 6, Jul.-Au.
 Sight Reading. Jeremiah and Ezekiel. iv, 6, Jul.-Au.
 Bk. of Judges. iv, 12, O.-D.
 Bk. of Chronicles. iv, 12, N.-D.
 Deuteronomy. iv, 6, Ja.-F.
 Jeremiah. iv, 6, F.-Mar.

H. S. WILLET, Asst. in Sem. Langs. and Lits. and Dean of the Disciples' House.

A.B., Bethany Col., '86, and A.M., '87; non-res. Prof. of Hebr. and O. T. Lit., Bethany Col., '92-3; Instr. Bible Chair, Ann Arbor, Mich., '93-5; Ph.D., Chicago, '96.

Hebr. Sight Reading. iv, 12, Jul.-S.
 Outline Hebr. Hist. iv, 12, Ap.-Jun.

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13 Graduate Students, 1896-7.

[Courses marked B are open to Barnard Students]

Courses in Semitic at the Union Theological Seminary are open to students of Columbia, and count as work for A.M. and Ph.D. The university and seminary libraries contain most of the periodicals which deal with Oriental research, and are esp. rich in works of Rabbinical Hebrew, Hebr. and Arabic MSS., Babylonian tablets.

Columbia — *Continued.*

R. J. H. GOTTHEIL, Prof. of Rabbin.
Lit. and Semit. Langs.
A.B., Columbia, '8x; Ph.D., Leipzig, '86.
B)*Bibl. Hebr. (el). ii, 30.
B)*Bibl. Hebr. (adv). ii, 16, O.-F.
B)*Bibl. Hebr. (crit.). ii, 14, F.-My.
B)*Rabbin. Hebr. Post-Biblical Poetry.
ii, 16, O.-F.
B)Rabbin. Hebr. Philosophy. ii, 14,
F.-My.
B)Rabbin. Hebr. Post Talmudic Lit. i,
14, F.-My.
B)Semitic Epigraphy. Aramaean In-
scripts. i, 30.
B)[Aramaean Inscripts. i, 30.]
B)[Sabean and Himyaritic Inscripts. i,
30.]
B)Assyrian (el). ii, 30.
B)[Assyrian (adv). ii, 30.]
B)Arabic (1st course). ii, 16, O.-F.
B)Arabic (2d course). ii, 14, F.-My.
B)Arabic (adv). ii, 30.
B)Syriac. ii, 30.
B)Syriac (adv). ii, 30.
B)Ethiopic. i, 16, O.-F.
B)Seminar. Methods of Linguistic Re-
search. ii, 30.
B)Intro. to Science of Language. ii,
30. (With Prof. Jackson.)

JAMES C. EGBERT, Jr. [see 2].

B)Septuagint and Vulgate, Job. i,
14, F.-My.

CLARENCE H. YOUNG [see 2].

B)*Gk. Test., Gospels and Acts. ii,
16, O.-F. Epistles, F.-My.

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1 Graduate Student, 1896-7.

NATHANIEL SCHMIDT, Prof. of Semitic
Langs. and Lits.A.M., Colgate, '87; Prof. of Semitic Langs.
and Lits., same, '88-'96.

*Hebrew. Gram. and readings. iii, 32.

Arabic. Gram. and readings. ii, 32.
*Geography and Antiquities of the Sem-
ites. i, 32.
Assyrian. Gram. and readings. ii, 32.
Ethiopic. Gram. and readings. ii, 32.
*Semitic Lit. Job, Ecclesiastes, the
Kuran. ii, 32.
[Aramaic. Gram. and readings. ii,
32.]
[O. Test. Lit. ii, 32.]
Semitic Sem. Isaiah and Phoenician
Inscriptions. ii, 32.

A. C. WHITE, Reader in N. Test. Gk.

A.B., Hamilton, '8x; Fellow in Class. Philol.,
Cornell, '84-5; Ph.D., same, '85; Instr. in
Greek and Latin, '85-9; Asst. Librarian, '89.

*N. Test. Greek. ii, 32.

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[Courses marked R are open to Radcliffe Gradu-
ate Students.]Special Semitic Library. Semitic museum
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lets, seals, coins, and photographs, provid-
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Conference meets twice a month, essays and
discussions on names of Semitic deities.C. H. TOV, Prof. of Hebrew and other
Oriental Langs.A.M., Virginia, '56; Prof. So. Bap. Theol.
Sem., '69-79.*Hist. of Pre-Christian Hebrew Lit.
iv, 15, O.-Ja.*Hist. Hebr. Relig., compared with
other Semitic Relig. ii, 30.*Hist. of Bagdad Califate. Moham-
medanism in India. Lects. on Lit.
The Koran. i, 30.*[Hist. of Spanish Califate. The
Koran. i, 30.]

R)Hebrew (adv). ii, 30.

R)Ethiopic. i, 30.

R)General Semitic Gram. Research.

R)Arabic (adv). ii, 30.

[The Talmud, Rosh ha-Shanah. i, 30.]

[Phoenician. i, 30.]

D. G. LYON, Prof. of Divinity.

Ph.D., Leipzig, '82.

*Hebrew (el). iii, 30.

*Babylonian-Assyrian Hist. i, 30.

*Hist. of Israel. ii-iii, 30.

R)Assyrian (adv). ii, 30.

R)Assyrian Gram. Research.

PROF. LYON and MR. ____.

R)Classical Aramaic (Syriac). ii, 15,
O.-Ja.

R)Jewish Aramaic. ii, 15, F.-Jun.

PROF. LYON or MR. ____.

R)Assyrian (el). ii, 30.

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R)Arabic (el). ii, 30.

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PAUL HAUPT, Prof. of Semitic Langs.

Ph.D., Leipzig, '78; Privatdoc., Göttingen, '80; Prof. of Assyriology in the same, '83; Hon. Curator of Coll. Oriental Antiq. in U. S. Nat. Mus.

Crit. Interp. of selected chapters of the Authorized Version. i, 30.

Hebrew (el). ii, 30.

Hebrew (2d yr.). Interp. of Bk. of Judges. i, 30.

Hebrew Prose Composition. i, 30.

Comp. Hebrew Grammar. i, 30.

Hebrew (adv). Crit. Interp. of Song of Solomon. i, 15, O.-F. Isaiah. i, 15, F.-My.

Aramaic Portions of Bks. of Daniel and Ezra. i, 30.

Arabic Prose Composition. i, 30.

Assyrian (adv). i, 30.

C. JOHNSTON, Assoc. in Semitic Langs.

Ph. D., Johns Hopkins, '94.

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Hist. of Assyria and Babylonia (according to Cuneiform Monuments). i, 15, O.-F.

Hebrew at sight. i, 30.

Syriac (Roediger's Chrestomathy). i, 30.

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Arabian Nights. ii, 30.

Assyrian for beginners. ii, 30.

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MR. ROSENAU, Instr. in Semitic Langs.

A.B., Univ. of Cincinnati, '88.

Post Biblical Hebrew. i, 30.

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J. A. CRAIG, Prof. of Semitic and Hellenistic Greek.

A.B., McGill Univ., '80, and A.M., '81; D.B., Yale, '83; Ph.D., Leipzig, '86; Instr. and Adj. Prof. of Semitic Langs. and N. Test. Greek, Lang. Sem., '86-'91.

Hebrew. Historical Bks. iii, 34.

Hebrew. Prophetic Bks. ii, 34.

Hebrew. Hagiographa. iii, 34.

Assyrian. Selections. iii, 34.

Sumerian. Sem. and lects. ii, 34.

Arabic. Gram. and selections. ii, 34.

Hist. Baylonia and Assyria, Israel-
itish Hist. and Prophecy in the light
of the monuments. ii, 17, O.-F.

Hellenistic Greek. Selections. iii, 34.

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2 Graduate Students, 1896-7.

J. R. JEWETT, Prof. of Semitic Langs.
and Hist.

A.B., Harv., '84; Instr. Sem. Langs., same,
'87-8; Ph.D., Strasburg, '90; Assoc. Prof.
Sem. Lang. and Lits., Brown.

*Hebrew Accidence. iv, 24, S.-F.

Hebrew Syntax. iv, 12, Mar.-My.

Isaiah. ii, 12, Mar.-My.

Aramaic. iv, 12, Mar.-My.

Arabic. iv, 24, D.-My.

Assyrian. iv, 12, S.-N.

*Oriental History. iv, 24, S.-F.

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Oriental Lib. of 5,500 vols. collected by the late Prof. De La Garde, of Göttingen, including his unpublished notes. Also a library presented by the Sultan of Turkey to the Hon. Abram S. Hewitt, and by him to the University. Assyriological collection comprises some newly discovered tablets and cylinders.

JOHN DYNELEY PRINCE, Prof. of Semitic Langs. and Dean of Graduate School. A.B., Columbia, '88; Ph.D., Johns Hopkins, '92.

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Hebrew (2d course). Crit. study of O. Test. i, 30.

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CHARLES HORSWELL, Prof. of Hebrew.

A.B., Northwestern, '84, and A.M., '87; D.B., Garrett Bibl. Inst., '87; Ph.D., Yale, '91; Instr. in Greek, Garrett Bibl. Inst., '84-7; in Greek and Hebrew, '87-'91; Asst. Prof. of Hebrew, '91-4.

*Elements of Hebrew. iii, 32.

Historical Books. iii, 32.

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Ph.D., Leipzig, '83; Prof. Class. Langs., "Fridrianianum," Davos, Switzerland, '84-5; Repent. Theol. Fac., Erlangen, '85-6; Prof. O. Test. Langs. and Theol., Mt. Airy Sem., Philadelphia.

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Votive Inscrips. from Nippur and Tello. i, 15, O.-F.

Interp. Habakkuk and Zephaniah. ii, 15, O.-F.

Syriac Gram. i, 15, O.-F.

MORRIS JASTROW, JR., Prof. of Semitic Langs. and Asst. Libr.

A.B., Univ. of Pa., '81, and A.M., '83; Ph.D., Leipzig, '84; Lecturer in Semitic Langs., '85-6.

History of Ancient Hebrews. i, 15, F.-My.

Interp. of Ecclesiastes. i, 15, O.-F.

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Hebrew Sight Reading. i, 30.

Hebrew Syntax. i, 15, F.-My.

Hebrew Gram. Lects. i, 30.

Aramaic Gram. i, 30.

Arabic Gram. ii, 30.

Selected Suras from Koran. i, 30.

Brunnow's Arabic Chrestomathy. i, 30.

El-Bokhāri. i, 15, O.-F.

Abu-l-Feda, Hist. Ante-Islam. i, 15, F.-My.

[Semitic Epigraphy. i, 15, O.-F.]

[South Arabic Inscrips. i, 15, F.-My.]

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CHALMERS MARTIN, Instr. in Hebrew.

A.B., Princeton, '79, and A.M., '82; Aast. Prof. in O. Test. Dept., Princeton Theol. Sem.

*Hebrew Gram. and O. Test. readings. iv, 36.

RADCLIFFE.

o Graduate Students, 1896-7.

[See Harvard Courses marked R.]

C. H. TOY.

*Hist. of Pre-Christian Hebrew Lit. ii, 15, F.-Jun.

D. G. LYON.

*Hebrew (el). iii, 30.

*Hist. of Israel. ii-iii, 30.

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1 Graduate Student, 1896-7.

J. H. STEVENSON, Adj. Prof. of Semitics.

D.B., McGill Univ.

*Hebrew (el). iii, 32.

*Hebrew (adv). iii, 32.

*Aramaic (el), readings from Targums. i, 32.

Aramaic (adv). i, 32.

Syriac (el), readings in Gospels. i, 32.

Syriac (adv). i, 32.

*Arabic (el). Nallino's Chrestomathy and Koran. i, 32.

Arabic (adv). Brunnow's Chrestomathy, Koran and lects. i, 32.

Assyrian (el). Hist. Inscrips. i, 32.

Assyrian (adv). Comp. with Hebrew.

Archæol. Lects., gram. and selections. i, 32.

GROSS ALEXANDER, Prof. of New Testament Exegesis.

D.B., Drew Sem., '77; S.T.D., Emory and Henry, '90.

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*Genesis and Hebrew Gram. iv, 36.

*Psalms and Job. ii, 36.

Hebrew Seminary. Isaiah. i, 36.

*Hist. of Israel. i, 36.

*Pauline Epistles. ii, 36.

F. T. KELLY, Instr. in Hebrew and Hellenistic Greek.

*Hist. Hebrew. iii, 36.

*Exercises in writing Hebrew. i, 36.

*Arabic (el). ii, 36.

Arabic (adv). The Quran. ii, 36.

YALE.

15 Graduate Students, 1896-7

E. L. CURTIS, Prof. of Hebrew.

A.B., Yale, '74; Ph.D., Hanover, Indiana, '86; D.D., Yale, '91.

Hebrew Psalter. i, 32.

Book of Job. i, 32.

[The Five Megilloth. i, 32.]

Selections from Psalter. ii, 12, O.-D.

Book of Isaiah. i, 12, O.-D.

Anal. and Expos. of Isaiah, Jeremiah, Ezekiel (Eng.). ii, 20, Ja.-Jun.

Old Test. Intro. i, 32.

F. K. SANDERS, Prof. of Bibl. Lit.

A.B., Ripon, '82, and A.M., '88; Ph.D., Yale, '89; Vice-Prin. Am. Inst. Sacred Lit., '91-pr.

*Hebrew Poetry, Law, History and Prophecy. ii, 32.

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F. C. PORTER, Prof. of Bibl. Theol.
A.B., Beloit, '80, A.M. and Ph.D., '89.
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Hellenistic Jewish Lit. i, 32.
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Judaism in N. Test. Times. ii, 32.

BENJ. W. BACON.

A.B., Yale, '81, B.D., '84, and A.M., '92;
D.D., Western Res., '93; Litt. D., Syracuse,
'95.
Hist. of New Test. Lit. ii, 32.
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ARTHUR FAIRBANKS, Instr. in Comp.
Relig.
A.B., Dartmouth, '86; Ph.D., Freiburg, '90.
Hellenistic Greek. i, 32.
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Testimony of Drama to Relig. at
Athens, 5th Cent. B. C. ii, 32.

H. W. DUNNING, Instr. in Sem. Langs.
and Lits.

A.B., Yale, '94.
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Arabic Prose Lit. ii, F.-Jun.
Biblical Aramaic. ii, O.-F.
Syriac and Text. Crit. of New Test.
ii, F.-Jun.
Old Test. Wisdom Lit. (Eng.) i,
32.
[Messianic Prophecy (Eng.). i, 32.]

— — —, Instr. in Semitics.

Begin. Assyrian. ii, 32.
Assyr. and Babylonian Inscripts. ii,
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Assyro-Babylonian Hist. and Lit. ii,
16, F.-Jun.
Ethiopic. ii, 12, O.-D.
Comp. Semitic Gram. ii, 20, Ja.-Jun.
Semitic Seminary. ii, 32.
Book of Jeremiah (Hebr.). i, 32.
[Book of Ezekiel. i, 32.]

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[For Biblical and Patristic Greek and Latin, see 1. For Classical Archaeology, see 7.]

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J. S. MANATT, Prof. of Gk. Lit. and
Hist.

A.B., Iowa Col., '69; Ph.D., Yale, '73; LL.
D., Iowa, '87; Prof., Denison Univ., '74-6;
Prof. of Gk., Marietta Col., '78-'84; Chanc.,
Univ. Nebraska, '84-9.

*Aristophanes and the Greek Stage.
iii, 33.

Theocritus. Sem. ii, Fortnightly.

FRANCIS G. ALLINSON, Assoc. Prof. of
Gk. and of Class. Philol.

A.B., Haverford, '76, and A.M., '79; Ph.D.,
Johns Hopkins, '80; Fel. in Gk., Johns Hop-
kins, '77-'80; Asst. Prof. Gk. and Lat., Haver-
ford, '80-2; Asst. Prof. Anc. Langs., Wil-
liams, '92-3.

Herodotus, Smith's Ionic Dialect or
Plato's Republic. ii, Fortnightly.

A. G. HARKNESS, Prof. of Roman Lit.
and History.

A.B., Brown, and A.M., '82; Prof. Lat. and
Ger., Colgate, '83-9; Assoc. Prof. Lat., Brown,
'89-'93.

*Pliny the Younger. i, 33.

Epigraphy. ii, 33.
 Palæog. and Text. Criticism. ii, 33.
 [Numismatics. i, 33.]
 [Roman Hist. i, 33.]
 *[Prose of Repub. Devel. of Oratory. iii, 12, S.-D.]
 *[Prose of Aug. Age. Devel. of Hist. Writing. iii, 11, Ja.-Mar.]
 *[Prose of Silver Age. iii, 10, Ap.-Jun.]
 *Poetry of Republic and of Augustan Age. iii, 11, Ja.-Mar.
 *Poetry of Silver Age. iii, 10, Ap.-Jun.
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A.B., Swarthmore, '76, and Harv., '78; Instr. in Classics, Williams, '83-5; Ph.D., Göttingen, '84; Fel. by Courtesy and Lect. in Gk., Johns Hopkins, '85-7, and Reader in Gk. Lit., '87-8.

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MORTIMER L. EARLE, Assoc. Prof. of Greek and Latin.

A.B., Columbia, '86, A.M., '87, and Ph.D., '89; Asst. in Greek, Columbia, '86-9; Acting Asst. in Latin, Columbia, '86-7; Instr. in Greek, Barnard, '89-'95; Lect. in Greek, Columbia, '94-5.

*Lucretius, Bks. I. and II. ii, 15, O.-F.

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*Catullus. i, 15, F.-Jun.

PAUL E. MORE, Assoc. in Sansk. and Class. Lit.

A.B., Washington, '87, and A.M., '91; A.M., Harv., '93; Fel. same, '93-4; Asst. in Sansk., same, '94-5.

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Plato's Republic. iv, 32.

[Pindar. iv, 16, Au.-D.]

[Studies in Homer. Sem. iv, 16, Ja.-My.]

*Plato's Gorgias. ii, 16, Au.-D.

*Ethics of Aristotle, I-IV. ii, 16, Ja.-My.

WILLIAM A. MERRILL, Prof. of the Latin Lang. and Lit.

A.B., Amherst; Ph.D., Ohio.

Cicero, De Finibus. iii, 16, Au.-D.

Seminary. Lucretius. iii, 32.

Catullus. iii, 16, Ja.-My.

*Patristic Latin. Tertullian, The Hymn Writers. iii, 16, Au.-D.

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*Virgil, Georgics; Seneca, Medea. ii, 16, Ja.-My.

JOSEPH C. ROCKWELL, Asst. Prof. of Classical Archæol.

A.B., Wesleyan; A.M., Harvard.

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*Tacitus, Annals. iii, 16, Au.-D.

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[Syntax of the Latin Verb. Sem. ii, 36, O.-Jun.]

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- A.B., Princeton, '62, and A.M., '65; Ph.D., '74; L.H.D., '89.
- *Aristotle. Nicomachean Ethics. ii, 18, S.-Ja.
- *Plato. Republic and Platonic Philos. ii, 18, F.-My.
- Plato. Life and Works. i, 36.

S. R. WINANS, Prof. of Gk. and Instr. in Sanskrit.

- A.B., Princeton, '74, and Ph.D., '82.
- *Greek Lyric Poets. ii, 18, F.-My.
- Gk. Historians. Critical study. ii, 36.
- A. F. WEST, Prof. of Latin.
- A.B., Princeton, '74, and Ph.D., '83.
- *Roman Oratory. ii, 18, S.-Ja.
- *Early Latin Poetry. ii, 18, F.-My.

E. Y. ROBBINS, Instr. in Gk.

- A.B., Princeton, '89, and A.M., '91.
- Greek Dialects. ii, 36.

W. K. PRENTICE, Instr. in Gk.

- A.B., Princeton, '92, and A.M., '95.
- Greek Writers of Early Christian Centuries. i, 36.

J. B. CARTER, Instr. in Latin.

- A.B., Princeton, '93, and A.M., '96.

Princeton—Continued.

- *Roman Elegy in Augustan Age. Tibullus, Propertius, Ovid. ii, 18, S.-Ja.
- *Satires and Epistles of Horace. ii, 18, F.-My.
- Apuleius. Metamorphoses. i, 18, S.-Ja.
- Petronius. Cena Trimalchionis. i, 18, F.-My.

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[See Harvard Courses marked R.]

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- *Plautus, Lucretius, Horace's Satires and Epistles. iii, 30.

FREDERIC D. ALLEN.

- *Practice in Latin Expression and Style (narrative and descriptive). i, 30.
- *Hist. of Greek Lit. iii, 30.

CLEMENT L. SMITH.

- *[Hist. of Latin Poetical Lit. iii, 30.]

JOHN H. WRIGHT.

- *Demosthenes, Aeschines, Aeschylus, Sophocles, Aristophanes. iii, 30.
- *Gk. Prose Composi. (adv). i, 30.

JOHN WILLIAMS WHITE.

- *Plato's Republic. Aristotle's Ethics. iii, 30.

F. C. BABBITT.

- *Modern Greek. iii, 15, O.-Ja.

ALBERT A. HOWARD.

- *Suetonius, Pliny, Juvenal, Martial. iii, 30.

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24 Graduate Students, 1896-7.

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Tutor, Wofford, '79-'81; Asst. Prof. Greek,

same, '81-2; Prof. Greek, same, '82-3; Ph.D., Leipzig, '85; LL.D., Univ. N. Car., '94.

W. H. KIRK, Instr. in Latin.

Ph.D., Johns Hopkins, '94.

Hist. Lat. Gram. i, 32.

Early Latin Inscriptions. ii, 32.

H. C. TOLMAN, Prof. of Greek and Act. Prof. of Sanskrit.

Ph.D., Yale, '90; Asst. Indo-Europ. Langs., same, '91; Asst. Prof. Sanskrit, Wis., '92-3; Prof. Sanskrit, Univ. N. Car., '94.

Seminary. Homer. ii, 32.

Greek Historians. i, 16, O.-Ja.

Aeschylus. i, 16, F.-My.

WELLESLEY.

5 Graduate Students, 1896-7.

ANGIE C. CHAPIN, Prof. of Gk. Lang. and Lit.

A.B., Mich., '75, and A.M., '95.

*Origin and Devel. of Greek Drama. iii, 35.

*Hist. of Greek Poetry. iii, 35.

JULIA J. IRVINE, President, and Prof. of Greek Lang. and Lit.

A.B., Cornell, '75, and A.M., '76; Litt. D. (hon.), Brown, '95.

*Homer. Readings and lects. iii, 17, S.-Ja.

*Private Life of the Greeks. iii, 17, F.-Jun.

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*Plato, Phædo, and the Republic. iii, 35.

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A.B., Cornell, '88; Ph.D., Cornell, '95.

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Rhetorical Writings. Cicero, Quintilian. iii, 35.
 *Philosophical Writings. Lucretius, Cicero, Seneca. iii, 35.
 *Lyric, Idyllic, and Elegiac Poetry, with Verse Composi. iii, 35.
 *Reading and writing Latin. iii, 35.

ADELINE B. HAWES, Assoc. Prof. of Latin.

A.B., Oberlin.
 *Historians. Livy and Tacitus, with collateral readings. iii, 35.
 *Hist. of Roman Prose Lit. i, 35.

HELEN L. WEBSTER [see 6].

*Historical Latin Gram. Readings from Gellius, Varro, Quintilian, Cicero. iii, 35.

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— ? Graduate Students, 1896-7.

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Encyclopædia and Methodology of Classic Philol. iii, 17, F.-Jun.
 *Idyllic Poetry. ii, 16, S.-Ja.
 *Athenian Drama. iii, 16, S.-Ja.
 Greek Antiquities. iii, 17, F.-Jun.
 *Greek Philosophy. iii, 16, S.-Ja.
 *Gk. Prose Composi. i, 16, S.-Ja.
 Greek Oratory. iii, 17, F.-Jun.

H. N. FOWLER, Prof. of Greek.

A.B., Harvard, '80; Ph.D., Bonn, '85; Instr. in Greek, Latin and Archæol., Harvard, '85-8; Prof. of Greek, Univ. of Texas, '92-3; Prof. of Greek, College for Women, W.R.U., '93.
 Intro. to Gk. Epigraphy. iii, 16, S.-Ja.
 Plato's Republic and Aristotle's Politics. iii, 16, S.-Ja.
 *History. iii, 17, F.-Jun.

E. M. PERKINS, Prof. of Latin.

A.B., Vassar, '79; Assoc. Prof. of Latin, Col. for Women, W.R.U., '92; Prof. of Latin, same, '93.

Roman Satire. iii, 36.
 Roman Lyric and Elegiac Poetry. iii, 16, S.-Ja.
 Latin Prose Composi. iii, 17, F.-Jun.
 Roman History. iii, 16, S.-Ja.
 *Cicero, Brutus, Tacitus. iii, 17, F.-Jun.

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Greek Lyric Poets. Seminary. ii, 36.
 [Thucydides. Seminary. ii, 36.]
 [Greek Drama and Scenic Antiquities. ii, 36.]

*Lyric Poets and Orators. iii, 36.
 *Journal Club. i, 36. (With other classical professors).

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A.B., Dalhousie, '89; Ph.D., Cornell, '91; Instr. in Gk., Stanford, '91-2; Instr. in Gk., Cornell, '92-4.

Greek Dialects. ii, 36.

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A.B., De Pauw, '83; Ph.D., Johns Hopkins, '91; Instr. in Lat., Bryn Mawr, '87-8; Prof. Latin, Iowa College, '89-'96.

Roman Drama. Seminary. ii, 36.
 [Livy and Tacitus. Seminary. ii, 36.]

[Horace, Odes. Seminary. ii, 36.]

Lectures on Latin Syntax. i, 36.

*Lucretius and Vergil. iii, 36.

*[Early Roman Poetry. iii, 18.]

*[Roman Oratory. iii, 18.]

Wisconsin — *Continued.*

H. A. SOBER, Asst. Prof. of Latin.

A.B., Mich., '86; Instr. in Gk., Mich., '91-2; Instr. in Latin, same, '92-3.

*[Roman Archaeology and Topography. ii, 18.]

*[Introduction to Epigraphy. ii, 18.]

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[Tradition of the History of Alexander. iii, 32].

Pausanias. i, 32.

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Æschylus. iii, 32.

Plato. iii, 32.

Pindar. i, 32.

[Epic Poetry. ii, 32.]

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[Greek Orators. iii, 32.]

*Pindar and Æschylus. ii, 32.

*Plato. ii, 32.

*Greek Testament. i, 32.

*[Phædo of Plato. ii, 32.]

[Aristotle's Nicomachean Ethics. ii, 32.]

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[Sophocles. iii, 32.]

*Greek Archaeology. ii, 32.

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A.B., Yale, '80, and A.M., '96.

Aristote's Poetics. Lit. Crit. in Anc. Times. i, 32.

Late Greek Poetry. i, 32.

*[Euripides. ii, 32.]

*Lucian. ii, 32.

Greek Inscriptions. iii, 32.

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[Cœphori of Æschylus, Electra of Sophocles, and Electra of Euripides. ii, 20, Ja.-Jun.]

The Sicilian Invasion. ii, 32.

C. L. BROWNSON, Instr. in Greek.

A.B., Yale, '87.

Gk. Comp. and Sight Reading. ii, 32.

TRACY PECK, Prof. of Lat. Lang. and Lit.

A.B., Yale, '61, and A.M., '64; Prof. Latin, Cornell, '71-'80.

Horace (Satires) and Tacitus (Dialogues). ii, 32.

Early Latin. i, 32.

*Cicero (Brutus), Quintilian (X and XII) and Tacitus (Dialogus). ii, 32.

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*[Latin Philology. i, 32.]

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*Ennius, Lucretius, Vergil and Horace. ii, 32.

*Letters of Pliny, Cicero, Fronto and Marcus Aurelius. ii, 32.

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*Latin Lyric and Elegiac Poetry. ii, 32.

*[Latin Satire and Comedy. ii, 32.]

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A.B., Princeton, '84; Ph.D., Yale, '94.

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[See also 6.]

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*Shakspeare. iii, 33.

*Anglo-Saxon. iii, 33.

[Middle English. iii, 33.]

Oldest English Texts. iii, 33.

*Chaucer. iii, 23, S.-Mar.

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A.B., Brown, '87; A.M., Cornell, '90; Fellow in Eng., Cornell, '89-'90; Prof. of Eng., De Pauw, '90-2.

[Shakspeare's Plays as Dramatic Lit. iii, 33]

[English Poetry from Burns to Keats. iii, 33.]

*The Novel. iii, 33.

*Victorian Poets. iii, 33.

LORENZO SEARS, Assoc. Prof. of Am. Lit.

A.B., Yale, '61; A.M., Trinity; L.H.D., Trinity, '92; Grad. Gen. Theol. Sem., N. Y., '64; Prof. of Rhet. and Eng. Lit., Univ. Vt., '85-'90.

*[Hist. of Oratory. i, 33.]

*Am. Lit. iii, 33.

*[The Oration as a Type of Composi. and Lit. iii, 33.]

HAMMOND LAMONT, Assoc. Prof. of Rhetoric and Oratory.

A.B., Harvard, '86; Instr. in Eng., same, '92-5.

*Eng. Composi. for Teachers. iii, 33.

*Oral Discussion. iii, 33.

R. E. N. DODGE, Instr. in Eng. Lit.

A.B., Harv., '89, and A.M., '91; Instr. in Eng., Barnard, '94-5.

*Eng. Lit. from Dryden to Cowper. iii, 33.

*[Eng. Lit. from Wyatt to death of Spenser. iii, 33.]

*Eng. Lit. from death of Spenser to the Restoration. iii, 33.

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Fel., Bryn Mawr, '85-7; Ph.D., same, '88.

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[17th Cent. Prose Writers. ii, 30.]

*English Critics of Life. Burke, Carlyle, Ruskin. iii, 30.

*[English Critics of the 19th Cent. iii, 30.]

JAMES D. BRUCE, Assoc. in Eng. Philol.

A.M., Univ. of Virginia, '83; Prof. of Mod. Langs., Centre Col., '90-1; Ph.D., Johns Hopkins, '94.

Genesis and Exodus. ii, 30.

Hist. of Eng. Versification to 16th Cent. ii, 30.

Eng. Sem. Beowulf. ii, 30.

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*18th Cent. Poets. ii, 30.

*[19th Cent. Poets. ii, 30.]

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CHARLES M. GAYLEY, Prof. of Eng. Lang. and Lit.

A.B., Michigan.

[History of Lit. Criticism. iii, 32.]

[English Comedy. iii, 32.]

Special Research. —?

*[Probs. in Lit. Criticism. iii, 32.]

CORNELIUS B. BRADLEY, Prof. of Rhetoric.

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[Influence of Germany on Eng Lit. of 18th and 19th Cents. ii, 32.]

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Poetry of Milton (with verse production). iv, 12, O.-D.

Masterpieces in Hist. and Fiction (with production for crit.). iv, 12, O.-D.

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*Ethics Underlying Shakespeare's Plays. iv, 12, Ap.-Jun.

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A.B., Kentucky Wesleyan, '78, and A.M., '82; Prof. of Eng., Wells, '82-91.

Theory of the Drama. iv, 12, Au.-D. Wordsworth and the Eng. Romantic Movement. iv, 12, Jul.-S.

*Shakespeare. Sources, Text and Interp. of King Lear. iv, 12, Ja.-Mar.
 Poet. and Crit. Work of Coleridge. iv, 12, Ja.-Mar.
 Beginnings of the Eng. Romantic Movement. iv, 12, Ap.-Jun.
 *Elements and Kinds of Lit. iv, 12, Jul.-S.

F. A. BLACKBURN, Assoc. Prof. of Eng. Lang.

A.B., Michigan, '68, and A.M., '71; Prof. of Anc. Langs., Albion, '70-1; Instr. in Latin, Michigan, '71-5; Ph.D., Leipzig, '92.

*Old Eng. El. course; prose selections; Beowulf. iv, 36, O.-Jun.
 *Early Mid. Eng. (el). iv, 12, O.-D.
 *Later Mid. Eng. Chaucer and Lang-land. iv, 12, Ja.-Mar.
 [Comp. Gram. of Old Eng. Lects. and special investigations. iv, 12, Ap.-Jun.]
 Eng. Lang. Sem. Grammatical probs. ii, 36, O.-Jun.
 Old Eng. Special Reading. O.-Jun.
 Mid. Eng. Special Reading. O.-Jun.
 *Hist. of Old English Lit. Lects. and special studies. iv, 12, Ap.-Jun.

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Ph.B., Syracuse, '76; Ph.M., '79, and Ph.D., '85; Lect. on Hist., Wellesley, '82-4.

Sources of Shakespeare's Plays. iv, 12, O.-D.
 The Sonnet in Eng. Lit. iv, 12, Ja.-Mar.
 [Doubtful Plays of Shakespeare. iv, 12, Ap.-Jun.]

A. H. TOLMAN, Asst. Prof. of Eng. Lit.

A.B., Williams, '77; Ph.D., Strassburg, '89; Fellow in Eng., Johns Hopkins, '84; Prof. of Eng., Ripon, '84-'93.

*Intro. to Eng. Lit. v, 12, Ja.-Mar.
 *Tennyson. iv, 12, O.-D.
 *Representative Plays of Shakespeare. iv, 12, O.-D.
 Eng. Versification. iv, 12, Ja.-Mar.

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 A.B., Harv., '90; Instr. in Rhetoric, Mass. Inst. of Tech., '90-3.
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A.B., Vassar, '80, and A.M., '92; Instr. in Eng., Wells, '80-8; Instr. in Eng. Lit., Vassar, '88-'92; Fellow in Eng., Chicago, '92-4; Ph.D., same, '95.

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A.B., Harv., '93, and A.M. '94; Asst. in Eng., same, and in Radcliffe, '94-5.

Hist. of 17th Cent. Lit. Poetry. iv, 12, Ja.-Ap.

FREDERIC I. CARPENTER, Docent in Eng.

A.B., Harv., '85; Hon. Fellow in Eng., Chicago, '93-4; Ph.D., same, '94.

Shakespeare. Macbeth and As You Like It. iv, 12, Jul.-S.
 Eng. Lyric Poetry. iv, 12, Jul.-S.
 Poetry of Spenser. iv, 12, Ap.-Jun.
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 B)[English Lang. and Lit. of 11th, 12th, and 13th Cents. ii, 30.]
 B)[English Lang. and Lit. of 14th Cent. (excl. Chaucer), and of 15th Cent. ii, 30.]
 B)Poetry of Tennyson, Browning, Arnold. — ?
 B)[English Lang. and Lit. of 16th Cent. ii, 30.]
 B)[Anglo-Saxon Prose and Historical Eng. Syntax. ii, 14, F.—My.]
 B)English Verse-Forms. Their Hist. Devel. ii, 30.

A. V. W. JACKSON [see 6].

B)*Anglo-Saxon Lang. and Historical Eng. Grammar. ii, 30.
 B)[Anglo-Saxon Archaic and Dialectic Forms. i, 14, F.—My.]

GEORGE E. WOODBERRY, Prof. of Lit.

A.B., Harvard, '77.
 *Hist. of Eng. Lit., 1789 to Death of Tennyson. iii, 30.
 *Hist. of Eng. Lit., 1660 to 1789. iii, 30.
 Hist. of Eng. Lit. from birth of Shakespeare to 1660. iii, 30.
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A.B., Columbia, '71; LL.B., '73, and A.M., '75; Lect. on Eng. Lit., '91-2.
 *The Art of Eng. Versification. i, 30.
 *American Lit. ii, 30.

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Smithsonian Institution, Washington, D. C., '50-6; Lecturer on Eng. Lit. Phil., '59-'65; A.M., Princeton, '64; Prof. Moral Science, Hist. and Rhet., Girard College, '65-6; Prof. of Rhet. and Eng. Lit., St. John's College, '66-'70; LL.D., same, '78; Prof. of Rhet., Oratory, and Eng. Lit., Cornell, '79-'90.

*English Lit. Chaucer to Tennyson and Browning (200 lectures).
 19th Cent. Prose (excl. novels). Sem. ii, 32.
 19th Cent. Novelists. Sem. ii, 32.
 17th and 18th Cent. Prose (excl. novelists). Sem. ii, 32.
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*Rhetoric. Teachers' Sem. iii, 32.
 *English Philol. iii, 32.
 Philol. Sem. Early and Middle Eng. Texts. ii-iv, 32.
 Early English Drama. iii, 32.

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*Rhetoric. Formation and growth of Eng. Prose. iii, 32.
 *Middle Eng. Philol. iii, 32.

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[The Eng. Novel from Richardson to George Eliot. i, 30.]

Eng. Composition (adv.). iii, 30.

The Poetry of Wordsworth, Coleridge, Tennyson and Browning. ii, 15, O.-Ja.

BARRETT WENDELL, Asst. Prof. of Eng.

A.B., Harv., '77.

*Eng. Lit., 1798-1832. ii, 15, O.-Ja. (With an Asst.)

Lit. Hist. of America. Research. —?

[Eng. Drama from the Miracle Plays to the Closing of the Theatres. i, 30.]

*Eng. Composi. Detailed criticism of themes. ii, 30.

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A.B., Harv., '82.

[Early English, 1200-1450. Mätzner's *Altengl. Sprachproben*. iii, 30. (With Dr. Garrett.)]

*Shakspeare (6 plays). iii, 30. [Historical Eng. Grammar. iii, 15, F.-Jun.]

[Early Eng. The Metrical Romances. iii, 15, F.-Jun.]

Anglo-Saxon. Cædmon and Cynewulf. iii, 15, F.-Jun.

English and Scottish Pop. Ballads. iii, 15, O.-Ja.

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- *[French Drama in 18th Cent. iii, 15, F.-Jun.]

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Classical Sanskrit Texts. iv, 12, Ja.-Mar.

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*Medieval Lit. in the Vulgar Tongues,

with special ref. to Influ. of France and Provence. iii, 30.

MR. WIENER.

*Russian Gram., Reading and Composi. iii, 30.

VANDERBILT.

4 Graduate Students, 1896-7.

H. C. TOLMAN [see 2].

Sanskrit Gram. and Readings. iii, 32.
Sanskrit Lit. Lects. i, 8.
Veda, Chandogya Upanishad, Sanskrit Composi. iii, 32.
Persian Cuneiform Inscrips. i, 16.

WELLESLEY.

2 Graduate Students, 1896-7.

HELEN L. WEBSTER, Prof. of Comp. Philology.

Ph.D., Zurich, '89.

*Sanskrit. iii, 35.

*Intro. to Science of Lang. iii, 17, S.-Ja.

*Intro. to Science of Comp. Philology. iii, 17, F.-Jun.

*Comp. Gram. of Greek and Latin. iii, 35.
Comp. Gram. of the Teutonic Langs. iii, 35.

WESTERN RESERVE.

o Graduate Students, 1896-7.

S. B. PLATNER [see 2].

Sanskrit. iii, 36.

WISCONSIN.

4 Graduate Students, 1896-7.

A. G. LAIRD [see 2].

*Sanskrit (el). ii, 36.
Sanskrit (adv). i, 36.

*[Comp. Gk. and Lat. Gram. ii, 36.]

Wisconsin — *Continued.*

EDWARD T. OWEN, Prof. of French
Lang. and Lit.
A.B., Yale, '73; Prof. of French, California,
'86-7.
[Correspondence of Thought and Lan-
guage. i, 18.]

YALE.

11 Graduate Students, 1896-7.

E. W. HOPKINS, Prof. of Sanskrit and
Comp. Philol.
A.B., Columbia, '78; Ph.D., Leipzig, '81;
Asst. in Latin and Instr. in Zend, Columbia,

'81-4; Prof. of Greek, Sanskrit and Comp.
Philol., Bryn Mawr, '84-5.

Intro. to Comp. Syntax. ii, 32.
Sanskrit (el). iii, 32.
Sanskrit (adv). iii, 32.
Hist. of Sanskrit Lit. ii, 32.

HANNS OERTEL, Asst. Prof. of Comp.
Philology.

A.M., Yale, '88, and Ph.D., '90.

Linguistics. ii, 32.
Phonetics. i, 32.
Comp. Phonology and Morphology of
Greek and Latin. ii, 32.

II. PHILOSOPHY, HISTORY, ECONOMICS, AND THE FINE ARTS.

7. PHILOSOPHY AND ETHICS.

[With Comparative Religion.]

BARNARD.

5 Graduate Students, 1896-7.

[See Columbia Courses marked B.]

BROWN.

8 Graduate Students, 1896-7.

E. BENJAMIN ANDREWS, President, and Prof. of Moral and Intellectual Philos.

Pres. of Denison, '75-9; Prof. Pract. Theol., Newton Theol. Inst., '79-'82; Prof. Hist. and Pol. Econ., Brown, '83-8; Prof. Pol. Econ., and Pub. Finance, Cornell, '88-9.

*Practical Ethics. iii, 21, Ja.-Jun.

*Casuistry. i, 21, Ja.-Jun.

*Christian Religion. i, 10, Ap.-Jun.

BRYN MAWR.

4 Graduate Students, 1896-7.

1 *Fellowship*, \$525.

D. S. MILLER, Assoc. in Philos.

Fel., Clark, '89-'90; Morgan Fel., Harv., '90-1; Walker Fel., '91-2; A.B., and A.M., '92; Ph.D., Halle, '93.

Recent Philosophic Theories. ii, 30.
[German Idealism. ii, 30.]
[Logic. ii, 30.]

*British Philos. of 17th and 18th Cents.
iii, 30.

*[English Ethics. iii, 30.]

*Problems in Philos. of Nature. ii, 15, O.-F.

*[Æsthetics. ii, 15, F-Jun.]

CALIFORNIA.

6 Graduate Students, 1896-7.

GEORGE H. HOWISON, Prof. of Intellectual and Moral Philos. and Civil Polity.

A.M., and LL.D., Marietta.

Hegel's Logic. Sem. iv, 32.

Philos. of Plato. ii, 32.

*Philos. of Kant. ii, 32.

*Ethics and Civil Polity. ii, 32.

GEORGE M. STRATTON.

A.B., Univ. of Cal.; A.M., Yale; Ph.D., Leipzig.

Psychological Research. xv, 32.

WALTER G. EVERETT, Assoc. Prof. of Philos. and of Natural Theology.

A.B., Brown, '85, A.M., '88, and Ph.D., '95; Instr. Gk., same, '89-'90; Instr. Latin, '90-5.

*Theoretical Ethics. iii, 23, S.-Mar.

*Philos. of Religion. iii, 10, Ap.-Jun.

*Hist. of Gk. Philos. iii, 12, S.-D.

*Hist. of Med. Philos. iii, 11, Ja.-Mar.

*Hist. of Mod. Philos. iii, 10, Ap.-Jun.

Philosophical Sem. ii, 33.

E. B. DELABARRE [see 8].

*Course in Authors. iii, 33.

California — *Continued.*

EVANDER B. MCGILVARY, Instr. in Logic.

A.M., Princeton.

*General Logic (adv.). ii, 32.

*Hume and Kant. iv, 16, Au.-D.

CHICAGO.

82 Graduate Students (incl. Psychol.), 1896-7; and 46 in Summer Quarter, '96.

3 *Fels. in Philosophy*; 1 in *Comp. Religion*.

JOHN DEWEY, Head Prof. of Philos.

A.B., Vermont, '79; Fellow, Johns Hopkins, '83-4, and Ph.D. '84; Prof. of Philos., Minn., '88-9; Prof. of Philos., Mich., '89-'94; Head Prof. of Philos., Chicago, '94-5.

Seminar. Philos. of Hegel. ii, 36, O.-Jun.

Logic of Ethics. iv, 12, O.-D. Psychol. Ethics, Ja.-Mar.; Pol. Ethics, Ap.-Jun.

Seminar. Ethics. iv, 6, Jul.-Au.

[Seminar. Hist. of Logic. — ?]

[Psychological Ethics. — ?]

[Evolution of Morality. — ?]

[Seminar. Theory of Logic. — ?]

JAMES H. TUFTS, Assoc. Prof. of Philos.

A.B., Amherst, '84; Instr. in Math., same, '85-7; D.B., Yale, '89; Instr. in Philos., Mich., '89-'91; A.M., Amherst, '90; Asst. Prof. of Philos., Chicago, '92; Ph.D., Freiburg, '92.

*Individualism in Mod. Thought. iv, 12, Jul.-S.

Sem. in Cartesianism. iv, 12, Jul.-S.

*Hist. of Greek Philos. iv, 12, O.-D.

*Hist. Mod. Philos. iv, 12, Ja.-Mar.

Sem. in Eng. Philos. ii, 24, O.-Mar.

[Hist. of Ästhetic Theory. iv, 12, Ap.-Jun.]

[Seminar. Kant. ii, 24, O.-Mar.]

[Kant's Critique of Pure Reason. iv, 12, Jul.-S.]

GEORGE H. MEAD, Asst. Prof. of Philos.

A.B., Harv., '88; Instr. in Philos., Mich., '91-3; Asst. Prof. same, '93-4.

Sem. in Greek Philos. ii, 24, O.-Mar.

[Sem. in Med. Philos. ii, 24, Ja.-Jun.]

Philos. of Nature. iv, 12, O.-D.

19th Cent. Thought. iv, 12, Ap.-Jun.

Logic (el.). iv, 12, Ap.-Jun.

G. S. GOODSPED [see 1].

Relig. of Greece. iv, 6, Jul.-Au.

Comp. Theol. Doctrines. Seminar.

ii, 12, O.-D.

Relig. of Anc. Persia and India. iv,

12, Ja.-Mar.

Relig. of Greece, Rome and North. Eu-

rope. iv, 12, Ap.-Jun.

EDMUND BUCKLEY, Docent in Comp. Religion.

A.B., and A.M., Mich., '84; Prof. of Philos., Doshisha, Kyoto, '86-'92; Fel. in Comp. Relig., Chicago, '93-4; Ph.D., same, '94.

Outline Hist. of Religion. iv, 12, O.-D.

Science of Relig. iv, 12, Ja.-Mar.

Philos. of Relig. Sem. iv, 12, Ap.-Jun.

COLUMBIA.

67 Graduate Students, 1896-7.

[Courses marked B are open to Barnard Students.]

NICHOLAS MURRAY BUTLER, Prof. of Philos. and Education.

A.B., Columbia, '82, A.M., '83, and Ph.D., '84; Univ. Fel. in Philos., '82-5; Asst. in Philos., '85-6; Tutor, '86-9; Adj. Prof., '89-'90; Prof. of Philos., Ethics, and Psychol., and Lect. on Educa., '90-5; Pres. N. Y. Col. for Teachers, '87-'91.

B) Hist. Intro. to Philos. ii, 30. (With Dr. Wilde.)

B) Philos. of Kant and his Successors. ii, 30.

B) British Philos. from Locke to Spencer. ii, 30.

B) Seminar. Philosphy. i, 30.

JAMES H. HYSLOP, Prof. of Logic and Ethics.

A.B., Wooster, '77, and A.M., '79; Ph.D., Johns Hopkins, '87; Prof. Psychol., Bucknell, '88; Tutor in Philos., Columbia, '89-'90; Instr. in Logic and Ethics, '91-5.

B) Ethics. ii, 30. (With Dr. Wilde.)
 B) Practical Ethics. ii, 30.
 B) Seminar. Ethics. i, 30.
 B) Systematic Ethics. ii, 30.
 Applied Logic and Scientific Method.
 iii, 14, F.-Jun.

NORMAN WILDE, Assistant.

B) Hist. of English Ethics. i, 16, O.-F.

CORNELL.

22 Graduate Students, 1896-7.

Courses here announced and those in B belong to the Susan Linn Sage School of Philosophy, to officers of instruction. Kant coll. of 100 vols.; complete Spinoza coll. of 500 vols.; psychol. lab. of 10 rooms. The School issues the *Philos. Review*. Monthly Conference of students. 3 Fels., \$300 each, and 6 Grad. Schols., \$300 each.

JAMES SETH, Prof. of Moral Philos.

A.M., Edinburgh, '81; Hon. Sc.D., Columbia; Baxter Scholar, Edinburgh; Ferguson Scholar in Philos.; Prof. of Philos., Dalhousie and Halifax, '89-'92; Assoc. Prof. Nat. Theol., Brown, '93-'4; Prof. Philos. and Nat. Theol., Brown, '94-'5.

*Systematic Ethics. iii, 32.

*Hist. of Ethics. ii, 32.

Ethical Seminary. ii, 32.

CHARLES M. TYLER, Prof. of Hist. and Philos. of Relig. and Christian Ethics.

A.B., Yale, '55, and A.M.; D.D., same, '92.

*Hist. of Religions. ii, 32.

*Applied Ethics. i, 32.

*Philos. of Relig. iii, 32.

Sem. Hist. and Philos. of Religion.
 ii, 32.

JAMES E. CREIGHTON, Prof. of Logic and Metaphysics.

A.B., Dalhousie, '87; Fel. in Philosophy, Cornell, '88-'9; Instr. in Philos., same, '89-'91; Ph.D., same, '92.

*History of Philosophy. iii, 32.

Logical Theory. ii, 32.

[Post-Kantian Idealism. ii, 32.]

Sem. in Aristotle's Metaphysics. ii, 32. (With Prof. Hammond).

WILLIAM A. HAMMOND, Asst. Prof. of Anc. and Med. Philos.

A.B., Harv.; Ph.D., Leipzig, '91; Instr. in Anc. Philos., Cornell, '91-'2.

*Hist. of Ancient and Mediæval Philos.
 ii, 32.

*Dialogues of Plato (Gk.). iii, 32.
 [Aristotle. Nicomachean Ethics. iii, 32.]

Sem. in Aristotle's Metaphysics. ii, 32. (With Prof. Creighton.)

ERNEST ALBEE, Instr. in Psychol. and Hist. of Philos.

A.B., Univ. of Vt.; Ph.D., Cornell, '94.

*Rapid Reading of Ger. Philos. i, 32.

*Locke, Hume, Leibnitz. iii, 32.

*The Critical Philos. of Kant. ii, 32.
 German Pessimism. Schopenhauer and von Hartmann. ii, 32.

DAVID IRONS, Lect. in Philos.

A.M., St. Andrews, '91; Ferguson Scholar in Philos., '92-'4; Ph.D., Cornell, '94.

*Recent Metaph. Theories. i, 32.

HARVARD.

32 Graduate Students, 1896-7.

[Courses marked R are open to Radcliffe Graduate Students.]

Graduate *Philos. Society meets fortnightly. 2 Fels. of \$300 and \$450 preferably awarded to students of this dept.

CHARLES C. EVERETT, Prof. of Theology.

A.B., Bowdoin, '50, and A.M.; S.T.D., same, '70, and Harv., '74; LL.D., Bowdoin, '94.

*Psychol. Elements of Relig. Faith. i, 30.

*Content of Christian Faith. iii, 30.

*Comparative Religion. ii, 30.

GEORGE H. PALMER, Prof. of Nat. Relig., Moral Philos. and Civil Polity.

A.B., Harv., '64, and A.M., '67; LL.D., Mich., '94; Tutor in Greek, '70-'3; Asst. Prof. Philos., '73-'83.

Harvard—Continued.

*Ethics. iii, 30.
R) Ethical Sem. Hist. Devel. of Ethical Thought in England. ii, 30.

WILLIAM JAMES [see 8].

*Philos. of Nature, with special ref. to Man's Place in Nature. iii, 30.
*Philos. of Kant. iii, 15, O.-Ja.

JOSIAH ROYCE, Prof. of Hist. of Philos.

A.B., Cal., '75; Ph.D., Johns Hopkins, '78; Instr. in Eng., Cal., '82-'83; Instr. in Philos., Harv., '82-'83; Asst. Prof. Philos., '85-'92.
*Metaphysics. Fundamental Prob. of Theoret. Philos. iii, 30.
R) Metaphysical Sem. Devel. of the Hegelian System. ii, 30.

GEORGE SANTAYANA, Instr. in Philos.

A.B., Harv., '86, A.M., '89, and Ph.D., '89.
*Greek Philos., with special ref. to Plato. iii, 30.
*Hist. of Eng. Philos. Locke to Hume. iii, 15, F.-Jun.
*Descartes, Spinoza, Leibnitz. iii, 15, O.-Ja.
Studies in Scholastic Philos. ii, 30.

JOHNS HOPKINS.

11 Graduate Students, 1896-7.

E. H. GRIFFIN, Prof. of Hist. of Philos.
A.B., Williams, '62, and A.M., '65; Prof. of Latin, Williams, '72-'81; Prof. of Rhetoric, '81-'6, and Mark Hopkins Prof. of Intellectual and Moral Philos., '86-9; D.D., Amherst, '80; LL.D., Princeton, '88.
Modern Philos. Descartes to Kant. i, 30.
Mod. Ethical Theories. Fort., 30.

LELAND STANFORD, JR.

1 Graduate Student, 1896-7.

DAVID S. JORDAN, Pres. of the Univ.

M.S., Cornell, '72; Instr. in Botany, same, '71-'2; Prof. of Nat. Hist., Lombard, '72-'3;

M.D., Indiana Med. Col., '75; Prof. of Biology, Butler, '75-'9; Ph.D., same, '78; Prof. of Zoology, Indiana, '79-'85; LL.D., Cornell, '86; Asst. U. S. Fish Com., '77-'91; Pres. Indiana Univ., '85-'91.

*Bionomics. Laws of Life. iii, 32.

EDWARD H. GRIGGS, Prof. of Ethics.

A.B., Indiana, '89, and A.M., '90; Instr. in Eng. Lit., same, '89-'91; Prof. Gen. Lit. '92-3.
*Modern Eng. Ethical Philos. iii, 18, Ja.-My.
*Ethics of Spinoza and Kant. iii, 14, S.-D.
*Sem. History of Morals. iii, 32.

MICHIGAN.

14 Graduate Students, 1896-7.

The Library of the late Prof. George S. Morris has been given to the University. It contains about 1,100 volumes which have been placed in a Seminary Room for the exclusive use of graduate students in Philosophy.

ROBERT MARK WENLEY, Prof. of Philos.

A.M. (First Class, Philos.), Glasgow, '84; Sc.D. (Mental Science), Edinburgh, '91; Ph.D., Glasgow, '95; Univ. Medallist in Philos., Glasgow, '84; Fellow, same, '84-'8, and Asst. Prof. Logic, '85-'8 and '91-'3; Lect. Philos. Dept., and Dean of Arts Faculty, Queen Margaret Col., '88-'93; Examiner for Degrees in Philos. and Eng. Lit., Glasgow, '89-'91; Lect. on Logic and Metaphysics, Glasgow, '93-'94; Lect. on Eng. Lit., Glasgow Athenaeum, '91-'6; Sec. Glasgow Univ. Extens. Bd., '90-'6; Lect. on Philos., Univ. Hall, Edinburgh, '95.

Kant's Critique of Pure Reason. ii, 17, O.-F.

Special Studies in Kant. i, 17, O.-F.
*Devel. of Ethical Ideas. ii, 17, O.-F.

Philosophy since Hegel. ii, 17, O.-F.
Hegel's Logic. ii, 17, F.-Jun.

*Metaphysic of Ethics. ii, 17, F.-Jun.
*The Theory of Evolution. ii, 17, F.-Jun.

Seminary in Metaphysics. ii, 34.

ALFRED H. LLOYD, Asst. Prof. of Philos.

A.B., Harvard, '86, A.M., '88, and Ph.D., '93.

- *Hist. of Philos. iii, 34.
- Special Studies in Hist. of Philos. i, 34.
- Spinoza. ii, 17, O.-F.
- *Philos. of Religion. ii, 17, O.-F.
- Systematic Ethics. iii, 17, F.-Jun.
- *Political Philos. ii, 17, F.-Jun.
- Graduate Seminary in Ethics. ii, 34.

GEORGE REBEC, Instr. in Philos.

- Ph.B., Mich., '91; Instr. in Eng., same, '91-3;
- Ph.D., Mich., '97.
- *Hist. of Ancient Ethics. ii, 17, O.-F.
- Plato's Republic. ii, 17, O.-F.
- *Esthetics. ii, 17, O.-F.
- *Second Course in Logic. ii, 17, F.-Jun.
- Aristotle's Ethics. ii, 17, F.-Jun.
- *Relation of Rhet. to Philos. ii, 17, F.-Jun.
- Graduate Seminary in Logic. ii, 34.

MINNESOTA.

15 Graduate Students, 1896-7.

FREDERICK J. E. WOODBRIDGE, Prof. of Philos.

- A.B., Amherst, '89; Instr. in Philos., Minn., '94-5.
- [Pre-Socratic Philos. ii, 36.]
- [Philosophy of Kant. ii, 36.]
- Logic (adv.). ii, 36.
- *Hist. of Philosophy. iv, 24, S.-Mar.
- *Ethics. iv, 12, Mar.-Jun.
- Philosophy of Aristotle. ii, 36.
- English Philosophy. ii, 36.

NEW YORK.

40 Graduate Students, 1896-7.

H. M. MACCRACKEN, Chancellor, and Prof. of Philos.

- D.D., Wittenberg, '78; LL.D., Miami, '87; Chancellor, Univ. West. Pa., '86-4; Prof. Philos., N. Y. U., '84; Vice-Chancellor, same, '85-'91.
- [Hist. of Ancient Philos. ii, 30.]
- [Hist. of Modern Philos. ii, 30.]
- [Contemporary Ethics. ii, 30.]
- [Philosophy of Theism. ii, 30.]

- Comp. Study of Scottish Philos. and Kant. Influ. of Scotch Philos. on Am. Thought. ii, 30.

SAMUEL WEIR, Prof. of Ethics.

- A.B. and B.D., Northwestern, '89; A.M., Illinois Wesleyan, '91; Ph.D., Jena, '95.
- Epistemology. ii, 30.
- [Metaphysics. ii, 30.]
- [German Philos. since Kant. ii, 30.]
- Ethical Theory. ii, 30.
- Philos. of the Supernatural. ii, 30.

EDWARD F. BUCHNER [see 8].

- Intro. to Philos. ii, 30.
- Logical Science. ii, 30.
- Philosophy of Kant. ii, 30.
- [Lotze's Mikrocosmus. ii, 30.]
- [Modern Pessimism. ii, 30.]
- [Esthetics. i, 30.]

ADDISON BALLARD, Prof. of Logic.

- A.M., Williams, '42; D.D., same, '67; Prof. Latin, Ohio Univ., '47-'54; Prof. Rhetoric, Williams, '54-5; Prof. Moral Phil. and Rhetoric, Lafayette, '79-'94.
- Logic. i, 30.

F. F. ELLINWOOD, Prof. of Comparative Religion.

- D.D., N. Y. U., '65; LL.D., same, '94.
- Comparative Religion. ii, 30.
- Comp. Relig. (adv.). ii, 30.
- Philosophy of Religion. ii, 30.

NORTHWESTERN.

1 Graduate Student, 1896-7.

GEORGE A. COE, Prof. of Philos.

- A.B., Rochester, '84, and A.M., '88; S. T. B., Boston, '87, and Ph.D., '91; Prof. of Philos., Univ. of So. Cal., '89-'90; Sleeper Traveling Fel., at Berlin, '90-1.

- *Hist. Anc. Philos. iv, 14.
- *Hist. Pre-Kantian Mod. Philos. iv, 12.
- *Hist. Kantian and Post-Kant. Philos. iv, 12.
- *Epistemology and Metaphysics. ii, 36.
- Sem. in Metaphysics. ii, 36.

PENNSYLVANIA.

52 Graduate Students, 1896-7.

1 Scholarship of \$100; 1 Fel. of \$600.

GEORGE S. FULLERTON, Vice-Provost of Univ., and Prof. of Intell. and Moral Philos.

A.B., Univ. of Pa., '79, and A.M., '82; D.B., Yale, '83; Instr. in Philos., '83-5; Adj. Prof. of Philos., '85-7; Ph.D. (hon.), Muhlenberg.

Hist. of Anc and Med. Philos. ii, 30.
[Hist of Mod. Philos. ii, 30.]

WILLIAM R. NEWBOLD, Asst. Prof. of Philos., and Dean of Dept. of Philos.

A.B., Univ. of Pa., '87; Instr. in Lat., '89-'91; Ph.D., same, '91; Lect. on Philos., '90-4.

History of Ethical Theories. ii, 30.
[Anal. of Ethical Theories. ii, 15.]
Factors of Conduct. ii, 15, O.-F.

EDGAR A. SINGER, JR., Senior Fel. in Philos.

B.S., Univ. of Pa., '92; Ph.D., same, '94.
German Idealism. ii, 30.

MORRIS JASTROW [see 1].

Study of Religion. 10 lects.

PRINCETON.

116 Graduate Students, 1896-7.

Collection on Aristotle and his Philos., 300 vols.

F. L. PATTON, Pres., Prof. of Bibl. Instr. and Prof. of Ethics and Philos. of Religion.

A.B., Hanover Col., '72; LL.D., Wooster Univ., '78; Prof. Theology, Chicago Theol. Sem.; Prof. Relation Philos. and Science to Religion, Princeton Theol. Sem.; Lecturer Theism, Princeton Theol. Sem.; D.B., Yale, '88; LL.D., Harv., '89; LL.D., Toronto, '94.

*Ethics. ii, 18, S.-Ja.

*Evidences of Christianity. i, 18,
F.-My.

*Theism. ii, 36.

C. W. SHIELDS, Prof. of Harmony of Science and Revealed Religion.

A.B., Princeton, '44; D.D., same, '61; LL.D., Columbian Univ.

*Harmony of Science and Religion.
ii, 18, F.-My.

History and Logic of Sciences, with ref. to Religion. ii, 18, F.-My.

A. F. ORMOND, Prof. of Mental Science and Logic.

A.B., Princeton, '77; Ph.D., same, '80.

*[History of Anc. Philos. ii, 18,
S.-Ja.]

*[History of Med. Philos. ii, 18, F.-
My.]

*History of Philos., Descartes to Kant.
ii, 18, F.-My.

*History of Philos., since Kant. ii,
18, F.-My.

*Metaphysics and Theory of Knowl-
edge. ii, 18, S.-Ja.

*Outlines of Philos. ii, 18, F.-My.
Selected Topics in Philos. ii, 36.
Mod. and Contemp. Philos. Semi-
nary. ii, 36.

J. G. HIBBEN, Asst. Prof. of Logic.

A.B., Princeton, '82; Ph.D., same, '93.

*Inductive Logic and Gen. Theory of Logic. ii, 18, S.-Ja.

*Symbolic Logic and Theory of Probabil-
ity. ii, 18, F.-My.

RADCLIFFE.

2 Graduate Students, 1896-7.

[See Harvard Courses marked R.]

WILLIAM JAMES.

*Philosophy of Nature. iii, 30.

G. H. PALMER.

*Ethics. iii, 30.

GEORGE SANTAYANA.

*Greek Philos., with special ref. to Plato.

H. C. BIERWIRTH.

*Kant and Schopenhauer. iii, 15, F.-Jun.

VANDERBILT.

x Graduate Student, 1896-7.

COLLINS DENNY, Prof. of Mental and Moral Philosophy.

A.B., Princeton; B.L., Univ. Va.; A.M., Princeton.

Formal Logic. iii, 8, O.-N.

Induction. iii, 5, N.-D.

Theory of Morals. iii, 5, D.-Ja.

Hist. Philos. iii, 5, F.-My.

Ethics (el). iii, 12.

*Hist. and Outline Anc. and Mod. Philos. ii, 32.

WELLESLEY.

2 Graduate Students, 1896-7.

ANNE E. MORGAN, Prof. of Philos.

A.B., Oberlin, '66, and A.M., '69.

*Philos. of Religion. iii, 35.

MARY S. CASE, Assoc. Prof. of Psychol. and Hist. of Philos.

A.B., Mich., '84.

*Social Philosophy. iii, 17, F.-Jun.

*General Hist. of Philos. iii, 35.

MARY W. CALKINS [see 8].

*British and Ger. Philos. of 17th and 18th Cents. iii, 35.

ELIZA RITCHIE, Instr. in Philos.

B.L., Dalhousie, '87; Ph.D., Cornell, '89.

*Greek Philosophy. iii, 35.

*German Philosophy. iii, 35.

*Hist. of Mod. Philos. iii, 17, F.-Jun.

*Philos. Seminary. Ethical Systems of Aristotle, Spinoza and Kant. iii, 35.

WESTERN RESERVE.

5 Graduate Students, 1896-7.

M. M. CURTIS, Prof. of Philosophy.

A.B., Hamilton, '80; D.B., Union Theol. Sem., '83; A.M., Hamilton, '83; Ph.D., Leipzig, '90.

[Absent in 1896-7.]

ROBERT MACDOUGAL, Instr. in Philosophy.

A.B., McGill Univ., '90; A.M., Harv., '93; Morgan Fel., '94; Ph.D., '95, and Walker Fel., '95-6.

*Ethics. iii, 16, S.-Ja.

*Logic. iii, 17, F.-Jun.

*Eng. Philos. from Locke to Hume. iii, 33.

Later Ger. Philos. iii, 17, F.-Jun.

H. A. AIKINS, Prof. of Philosophy.

Ph.D., Yale, '91; Instr. in Univ. Southern Cal., '88; Lect. on Hist. of Philos., Yale, '90-1; Prof. Logic and Philos., Trinity Col., N. C., '91-3; Hon. Fel., Clark, '92-3.

*Hist. of Philos. iii, 16, S.-Ja.

Hist. of Philos. ii, 17, F.-Jun.

*Philos. Seminary. iii, 17, F.-Jun.

WISCONSIN.

6 Graduate Students, 1896-7.

JOHN W. STEARNS, Prof. of Philos. and Pedagogy.

A.B., Harv., '60, and A.M., '64; Prof. Latin, Chicago, '65-'74; LL.D., Chicago, '74; Prof. Pedagogy, Wis., '85-8.

Hist. Greek Philos. iii, 18, F.-Jun.

Philos. Mod. Science. ii, 18, F.-Jun.

FRANK C. SHARP, Asst. Prof. of Philos.

A.B., Amherst, '87; Ph.D., Berlin, '92.

Adv. Analytical Psychology. ii, 18, F.-Jun.

Theory of Cognition. iii, 36.

Readings in Ger. Philos. ii, 18, S.-F.

*Ethics (adv). iii, 18, S.-F.

*Applied Ethics. ii, 18, F.-Jun.

YALE.

42 Graduate Students, 1896-7.

Philosophical Club.

G. T. LADD, Prof. of Philosophy.

A.B., West. Res., '64; A.M., Yale, '81, and West. Res.; D.D., West. Res., '81; LL.D., same, '95; Prof. Mental and Moral Philos., Bowdoin.

Kant. Seminary. ii, 32.

Metaphysics. ii, 32.

Theory and Hist. of Ethics. ii, 32.
(With E. H. Sneath.)

G. M. DUNCAN, Prof. of Philosophy.

A.B., Univ. City N. Y., '81, and A.M.; D.B., Yale, '84.

Epistemology. i, 32.

*Hist. of Mod. Philos. ii, 32.

Philos. of Empiricism. ii, 32. (With G. Green.)

*Theory of Evolution. ii, 32. (With H. S. Williams.)

E. H. SNEATH, Asst. Prof. of Philos.

A.B., Lebanon Valley, '81, and A.M., '84; D.B., Yale, '84, and Ph.D., '89.

Philosophy and Lit. i, 32.

Philos. Anthropology. ii, 32.

Philos. Scepticism. ii, 32.

ARTHUR FAIRBANKS [see 1].

Hist. of Religion. ii, 32.

HENRY DAVIES, Lect. on Hist. of Philos.

B.D., Yale, '88, and Ph.D., '96.

Philos. of Early Christian Fathers. ii, 32.

GERVASE GREEN, Instr. in Philos.

A.B., Yale, '94.

Logic (adv). i, 32.

*Hist. of Ancient and Mediæval Philos. ii, 32.

8. PSYCHOLOGY AND PEDAGOGICS.

BARNARD.

10 Graduate Students, 1896-7.

[See Columbia Courses marked B.]

BROWN.

15 Graduate Students, 1896-7.

E. B. DELABARRE, Assoc. Prof. of Psychology.

A.M., Harv., '89; Ph.D., Freiburg, '91.

*Psychol. Lab. iii, 10, Ap.-Jun.

Psychol. Research. iii, 33.

Seminary. iii, 33.

WALTER B. JACOBS, Assoc. Prof. of Pedagogy.

A.B., Brown, '82, and A.M., '85; Instr. in Pedag., '94-6.

*Hist. of Educa. Theories and Institutions. iii, 12, S.-D.

*Institutes of Pedagogy. iii, 11, Ja.-Mar.

*Practical Pedagogy. iii, 10, Ap.-Jun.

Sem. in Pedagogy. ii, 33.

Sem. in Methods. ii, 33.

Problems in Practical Teaching. i, 33.

BRYN MAWR.

1 Graduate Student, 1896-7.

D. S. MILLER [see 7].

*Psychol., chiefly of Intellect, Emotion, and Will. iii, 15, F.-Jun.

LIGHTNER WITMER, Lect. in Experimental Psychology.

A.B., Univ. of Pa., '88; Asst. in Exper. Psychol., '90-1; Ph.D., Leipzig, '92; Asst. Prof. Exper. Psychol. Univ. of Pa., '92-5.

*Physiological and Exper. Psychol. ii, 30.

CALIFORNIA.

31 Graduate Students, 1896-7.

ELMER E. BROWN, Prof. of Science and Art of Teaching.

Ph.D., Halle.

*Theory of Education. iv, 16, Au.-D.

*Probs. in Education. Sem. ii, 32.

THOMAS P. BAILEY, Jr., Asst. Prof. of Science and Art of Teaching.

Ph.D., South Carolina.

Biological Aspects of Pedagogy. ii, 16, Ja.-My.

Child Life. Sem. ii, 32.

CHICAGO.

31 Graduate Students (in Pedag.), 1896-7; 28 in Summer Quarter, '96.

JOHN DEWEY [see 7].

Educational Psychol. iv, 6, Jul.-Au.

JULIA E. BULKLEY, Assoc. Prof. of Pedagogy.

Grad., Fort Edward Collegiate Inst., '67; Ph.D., Zürich, '95.

General Pedagogy. iv, 12, Jul.-S., also Ja.-Mar.

Seminar. Pestalozzi. ii, 12, Jul.-S. Herbart, O.-D. Spencer, Ja.-Mar.

Educational Theories. iv, 12, O.-D.

CHARLES H. THURBER, Assoc. Prof. of Pedagogy.

Ph.D., Cornell, '86; A.M., Haverford, '90; Instr. in French, Cornell, '91-3; Prof. of Pedagogy, Colgate, '93-5; Director Divis. of Child Study, Dept. of Public Instr., N. Y., '95.

Inductive Study of Education. iv, 6, Au.-S.

JAMES R. ANGELL, Asst. Prof. of Exper. Psychol.

A.B., Mich., '90, and A.M., '91; Instr. in Exper. Psychol., Minn., '93-4.

*Intro. Psychol. iv, 12, O.-D.

*Exper. Psychol (el). iv, 24, O.-Mar. Research in Exper. Psychol. iv, 36, O.-Jun.

Relation of Psychol. to Philos. iv, 12, Ap.-Jun.

*Intro. to Philos. iv, 6, Jul.-Au.

*Spirit and Scope of Exper. Psychol. iv, 6, Jul.-Au.

GEO. H. MEAD [see 7].

*Comp. Psychol. iv, 12, Ja.-Mar. [Methodology of Psychology. iv, 12, Ja.-Mar.]

W. I. THOMAS [see 10].

Folk-psychology. iv, 48, Jul.-Jun.

CLARK.

35 Graduate Students, 1896-7.

Two Fels. \$600 each, two \$400 each; two Schools. \$200 each, two \$100 each.

G. STANLEY HALL, Pres. and Prof. of Psychology.

A.B., Williams, '67, and A.M., '70; Ph.D., Harvard, '78; Lect. in Williams and Harvard, '80; Prof. of Psychology, Johns Hopkins, '81-8; LL.D., Mich., '88, and Williams, '89.

Contemporary Philosophy. Scotch and French Schools, Eng. Philos., Ger. Philos. and Psychol., Am. Philos. Thought since Edwards. ii-iv, 35.

General Cosmology. i-ii, 35.

Select Topics in Education. i, 35 (Saturdays).

Psychol. Seminary. iii, 35.

EDMUND C. SANFORD, Asst. Prof. of Psychology.

A.B., California, '83; Fel., Johns Hopkins, '87; Ph.D., same, '88; Instr. in Psychology, same, '88; Instr. in Psychology, Clark, '89-'92.

Psychol. Practicum. Lab. and lects. iv, 35.

Psychol. Seminary. i, 35.

Original Research. Lab., 35.

Clark—Continued.

Normal Psychol. Lects. and demonstrations. i, 35.
Pedagogical Tests and Measurements. Lab. i, 12, O.-Ja.

WILLIAM H. BURNHAM, Instr. in Pedagogy.

A.B., Harv., '82; Instr., Wittenberg, '82-3; Fel., Johns Hopkins, '85-6; Ph.D., same, '88; Instr. in Psychology, same, '88-9.

Principles of Education. i, 18, O.-Ja.

Pedagogical Applications of Psychol. i, 35.

School Administration and the Training of Teachers. i, 17, Ja.-Jun.

A. F. CHAMBERLAIN, Lect. in Anthropology.

A.B., Toronto, '86, and A.M., '89; Fel. in Mod. Langs., Univ. Col., Toronto, '87-90; Fel. in Anthropology, Clark, '90-2; and Ph.D., '92.

Gen. and Special Anthropol., Ethnol. and Ethnog., with esp. ref. to Psychol., Pedagogy and Child-Study. ii, 35.

ADOLF MEYER, Docent. in Psychiatry.

M.D., Zurich, '92; Docent in Neurology, Chicago, '93-5; Pathologist and Neurologist, Worcester Lunatic Hospital, '95.

Psychiatric Problems, with Clinical Demonstration; also an Anthropological Course. In all, 10 clinics, ii hrs. each.

COLUMBIA.

22 Graduate Students, 1896-7.

[Courses marked B are open to Barnard Students.]

N. M. BUTLER [see 7].

B) Intro. to Psychol. iii, 30. (With Prof. Hyslop, Prof. Cattell, Prof.

Starr, Dr. Farrand, Mr. Strong, and Dr. Wilde.)

B) Hist. of Educa. Theories and Institutions. i, 30.

B) Principles of Educa. i, 30.

B) Seminar. Education. i, 30.

JAMES MCK. CATTELL, Prof. of Experimental Psychology.

A.B., Lafayette, '80, and A.M., '83; Ph.D., Leipzig, '86; Fellow, Johns Hopkins, '82-3; Ass't., Leipzig, '83-6; Lect., Univ. of Cambridge, '88; Lect., Univ. of Pa., '88; Prof. of Exper. Psychol., same, '88-'91.

B) Exper. Psychol. ii, 30.

B) Exper. Psychol. (adv.) ii, 30.

B) Mental Measurements. ii, 30. Seminar. i, 30.

MOSES A. STARR, Prof. in Col. Phys. and Surg.

B) Diseases of the Mind and Nervous System. i, 30.

LIVINGSTON FARRAND, Instr. in Physiolog. Psychol.

A.M., Princeton, '91; M.D., Columbia, '91.

B) Physiological Psychol. iii, 30.

B) Abnormal and Pathological Psychol. i, 16, O.-F.

CHARLES A. STRONG, Lecturer.

A.B., Rochester, '84; Instr. in Philos., Cornell, '87-9; Docent, Clark, '90-1; Assoc. Prof. Philos., Chicago, '91-5; Assoc. Prof. Psychol., same, '95-6.

B) General Psychol. ii, 30.

WALTER L. HERVEY, Pres. of Teachers' College.

B)* Seminar. Coördination and Relative Value of Studies. i, 30.

B) [Institutes of Educa. i, 16, O.-F.]

B)* Methods of Linguistic Teaching. i-ii, 14, F.-Jun.

B)* Methods of Math. Teaching. i-ii, 14, F.-Jun. (With Prof. Woodhull).

JOHN F. WOODHULL, Prof. of Educa. in Teachers' College.

B) Methods of Teaching Science. iii, 30.

CHARLES A. BENNETT, Prof. of Educa. in Teachers' College.

B) Manual Training in El. and Secondary Schools. ii, 30.

JOHN F. REIGART, Prof. of Educa. in Teachers' College.

B) General Method of Psychol., with observations. iv, 30.

B) Psychol. (adv). i-ii, 30.

B) Methods of Teaching Hist. in Secondary Schools. i-ii, 30.

CLARENCE E. MELENEY, Prof. of Educa. in Teachers' College.

B) Methods of Teaching in El. Schools. ii, 30.

B) School Supervision and Management. iii, 30.

FRANK T. BAKER, Prof. of Educa. in Teachers' College.

B) Methods of Teaching Eng. in Secondary Schools. ii, 16, O.-F.

CORNELL.

16 Graduate Students, 1896-7.

Psychol. Lab. specially endowed, 4,000 ft. of floor space for experimental purposes. Equipped for research work.

SAMUEL G. WILLIAMS, Prof. of Pedag.

A.B., Hamilton, '52, and A.M., '55; Ph.D., (hon.), same; Prof. of Geology, Cornell, '79-'86.

*Institutes of Educa. iii, 32.

*School Supervision. ii, 9, Mar.-Jun.

*Hist. of Educa. ii, 32.

Pedagogical Conference. ii, 20. Ja.-Jun.

Pedag. Sem. ii, 32.

EDWARD B. TITCHENER, Asst. Prof. of Psychol. and Dir. of Psychol. Lab.

A.B., Oxford, '89; Ph.D., Leipzig, '92; A.M., Oxford, '94; Extension Lect. in Biol., Oxford, '92.

*General Psychol. (el). iii, 12, O.-D.

*Exper. Psychol. iii, 32. (With Dr. Pillsbury.)

*Reading of Psychol. in French, Ger., or Italian. i, 32.

Systematic Psychol. iii, 32. (With Dr. Pillsbury.)

Psychological Sem. ii, 32. (With Dr. Pillsbury.)

HARVARD.

37 Graduate Students, 1896-7.

[Courses marked R are open to Radcliffe Graduate Students.]

Psychol. Lab. specially endowed. Ref. lib. of several hundred vols. Pedagogical Club.

WILLIAM JAMES, Professor of Psychol-
ogy.

M.D., Harv., '69; Ph.D. et Litt. D., Padua, '93; Instr. Anat. and Physiol., '72-6; Asst. Prof. Physiol., '76-'80; Asst. Prof. Philos., '80-5; Prof. Philos., '85-9.

[Abnormal Psychol. Types of insanity, exceptional mental phenom.
—?]

R) Psychological Sem. Philos. Problems of Psychology. ii, 30.

HUGO MÜNSTERBERG, Prof. of Experi-
mental Psychology.

Ph.D., Leipzig, '85; M.D., Heidelberg, '87; Instr., Freiburg, '88-'91; Asst. Prof., '91-2.

*Adv. Psychol. iii, 15, O.-Ja.

R) Psychological Lab. Investigations. (With Mr. Lough.)

JAMES E. LOUGH, Instr. in Exper. Psychol.

A.B., Miami, '91; A.M., Harv., '95.

*Experimental Psychol. (el). Lects. ii, lab. iv, 15, O.-Ja.

*Experimental Psychol. (2d course). Lects. i, lab. vi, 15, F.-Jun.

Harvard — *Continued.*

PAUL H. HANUS, Asst. Prof. of the Hist. and Art of Teaching.

B.S., Mich., '78; Prof. Math., Univ. Col., '79-'86.

R)*Methods of Teaching Science in El. and Sec. Schools (with other instrs.). Ten exercises for each of seven subjs. ii, 30.

*[Methods of Teaching Eng., Ger., French, Lat., Greek, Hist. (instr. by var. teachers). Ten exercises in each subj. ii, 30.]

[Pedag. Sem. i, 30.]

MR. —

*Hist. Educa. Theories and Pract. ii, 30.

*Intro. to Educa. Theory. i, 30.

R)Organiza. and Management of Public Schools and Acad. ii, 30.

LELAND STANFORD, JR.

6 Graduate Students, 1896-7.

FRANK ANGELL, Prof. of Psychol.

B.S., Vermont, '78; Ph.D., Leipzig, '91; L.H.D., Vermont, '92; Asst. Prof. of Psychol., Cornell, '91-2.

*Adv. Psychol. ii, 32.

*Methods of Sensation Measurement. i, 32.

EARL BARNES, Prof. of Education.

A.B., Indiana, '90; M.S., Cornell, '91; Prof. of Hist., Indiana, '89-'91.

*[Psychol. of Childhood. ii, 32.]

*[Seminary. ii, 32.]

[Pedag. Psychology. ii, 14, S.-D.]

EDWIN D. STARBUCK, Prof. of Education.

A.B., Indiana, '90; A.M., Harvard, '95; Ph.D., Clark, '97.

Psychology of Religion. ii, 32.

Seminary. ii, 32.

MARGARET E. SCHALLENBERGER, Instr. in Education.

*Educational Statistics. ii, 16, S.-D.

MICHIGAN.

16 Graduate Students, 1896-7.

B. A. HINSDALE, Prof. of Sci. and Art of Teaching.

A.M., Bethany, and Williams, '71; Ph.D., Ohio State Univ., '84; LL.D., Ohio Univ., '92; Pres., Hiram, '70-82.

Theory and Practice of Teaching. iv, 34.

Seminar. Study of special subjects in Hist. and Philos. of Education. ii, 17, F.-Jun.

ALFRED H. LLOYD [see 7].

*Psychology (2d course). ii, 17, F.-Jun.

— — —, Instr. in Psychology.

*Representative Modern Psychologists. ii, 34.

Original Invest. in Exper. Psychol. iv, 34.

Graduate Seminary in Psychol. ii, 34.

MINNESOTA.

7 Graduate Students, 1896-7.

HARLOW GALE, Instr. in Psychol.

A.B., Yale, '85.

*Psychical Research. Hypnotism and Insanity. iv, 12.

Exper. Psychol. of Feeling in Music, Color, Proportion, Motion and Conduct. iv, 36.

Exper. Psychol. of Reasoning. —? 12.

Exper. Psychol. of Childhood. —? 12.

Readings in Ger., Fr. and Ital. Psychol. Works. i, 36.

Brain Histology and Photomicrography. iv, 36.

DAVID L. KIEHLE, Prof. of Pedagogy.
A.B., Hamilton, '61, A.M., '64, and LL.D., '91.

- *Philos. of Education. iv, 12, S.-N.
- *Comparison of School Systems. iv, 12, Mar.-Jun.
- *History of Education. ii, 36.
- Seminar on Educational Problems. i, 36.

NEW YORK.

7 Graduate Students, 1896-7.

The School of Pedagogy is distinct from the Graduate School, and is not here included.

CHARLES B. BLISS, Prof. of Exper. Psychology.

A.B., Yale, '90, and Ph.D., '93; Lect. on Psycho-Physics, same, '93-4; Prof. of Exper. Psychol., New York, '94.

Exper. Psychology. iv, 30.
Research in Exper. Psychology.
Abnormal Psychology. ii, 30.
[Hist. of Modern Psychol. ii, 30.]

EDWARD F. BUCHNER, Prof. of Descriptive Psychology.

A.B., Western, '89; Ph.D., Yale, '93; Lect. on Ped., same, '93-3; Instr. in Ped. and Philos., same, '93-7; Prof. of Descriptive Psychol., New York, '96.

Systematic Psychology. iii, 30.

NORTHWESTERN.

1 Graduate Student, 1896-7.

HERBERT F. FISK, Prof. of Pedagogics.
A.B., Wesleyan, '60, A.M., '63, and D.D., '88.

- *Hist. of Education. ii, 36.
- *Principles of Educa. ii, 36.

PENNSYLVANIA.

63 Graduate Students, 1896-7.

1 Fellowship of \$600.

WILLIAM R. NEWBOLD [see 7].

Cognition, Thought and Will. ii, 30.

Fundamental Conceptions of Psychol. ii, 30.

LIGHTNER WITMER, Asst. Prof. of Psychol.

A.B., Univ. of Pa., '83; Ph.D., Leipzig, '91; Asst. in Exper. Psychol., '89-'91; Lectr. in Exper. Psychol., '91-3.

Physiol. Psychol. ii, 15, O.-F.
Sensation and Perception. ii, 15, F.-My.
Complex Mental Processes. ii, 15, O.-F.
Exper. Psychol. ii, 15, F.-My.
Mod. Psychol. Theory. i-ii, 30.
Select Themes in Exper. Psychol.
Lab. and Sem. i-ii, 30.
Sem. Child Psychol. i-ii, 30.

MARTIN G. BRUMBAUGH, Prof. of Pedagogy.

M.S., Brethren's Col.; A.M., Univ. of Pa., '93, and Ph.D., '94; Pres. Brethren's College.

Institutes of Educa. ii, 30.
[Hist. of Educa. ii, 30.]
Educa. Systems and Ideals. ii, 30.
Educa. Sem. i, 30.

PRINCETON.

23 Graduate Students, 1896-7.

Psychol. Lab. for pract. work. Special ref. lib. in connection.

W. B. SCOTT [see 17].

*Physiological Psychology. ii, 18, S.-Ja.

J. M. BALDWIN, Prof. of Exper. Psychol.

A.B., Princeton, '84, and Ph.D., '86; Prof., Lake Forest, '87-8; Prof., Toronto, '89-'93.

*Exper. Psychology. ii, 36.

*Gen. Psychology. ii, 36.

Exper. Psychol. Research. vi-xv, 36.
Seminary. Social and Genetic Psychology. i, 36.

Princeton—Continued.

H. C. WARREN, Demonstrator in Exper. Psychol.
A.B., Princeton, '89, and A.M., '91.
Theory of Mental Measurements. ii, 18, S.-Ja.
*Psychol. of Logic. ii, 18, F.-My.

RADCLIFFE.

6 Graduate Students, 1896-7.

[See Harvard Courses marked R.]

HUGO MÜNSTERBERG.

*Psychol. (adv). iii, 15, O.-Ja.
*Psychological Sem. ii, 30.

J. E. LOUGH.

*Experimental Psychol. ii, and lab. iv, 15, F.-My.

P. H. HANUS.

*[Intro. to Educa. Theory. Discussion of Educa. Principles. i, 30.]

MR. ____.

*Hist. of Educa. Theories and Practices. iii, 30.

VANDERBILT.

o Graduate Students, 1896-7.

COLLINS DENNY [see 7].

*Els. of Psychology. iii, 20, O.-F.
*Comp. Psychology. iii, 12, Mar.-My.

WELLESLEY.

4 Graduate Students, 1896-7.

MARY W. CALKINS, Assoc. Prof. of Psychol.
A.B., Smith, '85, and A.M., '88.
*Psychology (adv). iii, 35.

CARLA WENCKEBACH [see 4].

*[Hist. of Educa. Theories. Sci. and Art of Educa. Art of Teaching and Govt. iii, 35.]

WESTERN RESERVE.

3 Graduate Students, 1896-7.

ROBERT MACDOUGAL [see 7].

*Psychol. iii, 16, S.-Ja.

*Psychol. Seminary. iii, 17, F.-Jun.

H. A. AIKINS [see 7].

*Problems in Philos. and Psychol. iii, 16, S.-Ja.

Theory of Knowledge. ii, 16, S.-Ja.

*Educational Psychol. iii, 16, S.-Ja.

HENRY E. BOURNE [see 9].

*Education since the Renaissance. iii, 17, F.-Jun.

WISCONSIN.

6 Graduate Students, 1896-7.

Laboratory with special facilities for original research.

JOSEPH JASTROW, Prof. of Exper. and Comp. Psychology.

A.B., Univ. of Pa., '82; Ph.D., Johns Hopkins, '86.

*Exper. Psychol. 3 lects., lab. iv, 18, F.-Jun.

*[Comp. Psychol. ii, 18, F.-Jun.]

*Abnormal Psychol. ii, 18, F.-Jun.

Research in Psychol. —?

Philosophical Sem. Biweekly, N.-My.

JOHN W. STEARNS [see 7].

Problems in Applied Psychology. ii, 18, F.-Jun.

Herbartian Pedagogy. ii, 18, F.-Jun.

School Supervision. ii, 18, S.-F.

YALE.

33 Graduate Students, 1896-7.

G. T. LADD [see 7].

*Abnormal Psychol. i, 32.

G. M. DUNCAN [see 7].

Psychology (adv.). ii, 32.

E. W. SCRIPTURE, Instr. in Exper. Psychol.

A.B., Col. City of N. Y., '84; Ph.D., Leipzig, '91; Fellow, Clark, '91-2.

*Physiol. and Exper. Psychol. ii, 32.

*Psychology. Lab. ii, 32.

Psychology (adv.). ii, 32.

*Educa. Psychology. i, 32.

Research in Psychol. iv, 32.

C. E. SEASHORE, Asst. in Psychol.

A.B., Gustavus Adolphus Col., '91; Ph.D., Yale, '95.

Exper. Psychol. i, 32.

*Education. ii, 32.

9. HISTORY, POLITICS AND LAW.

[Including Government. See also 10 and 11.]

BARNARD.

11 Graduate Students, 1896-7.

Students have use of Columbia Lib. of Pol. Science, about 75,000 vols., and of Astor, Lenox, N. Y. Hist., Long Island Hist. and Charity Organization Libs.

J. H. ROBINSON.

Intro. to Mod. Europ. Hist. ii, 16, O.-F.

Reformation, and Beginning of the Catholic Reaction. ii, 14, F.-Jun. [France under Louis XIV, with ref. to the Fr. Revolution. ii, 16, O.-F.] [Europe and the Fr. Revolution, 1792-1815. ii, 14, F.-Jun.]

Principles of Hist. Crit. i, 33.

Hist. Mod. Europ. Historiog. i, 33.

[Hist. Bibliography. i, 33.]

Pract. research in Europ. Hist. i, 16.

*Pract. research in U. S. Hist. i, 16; iii, 10, Ap.-Jun.

*Historical Sem. i, 21, Ja.-Jun.

WILFRED H. MUNRO, Assoc. Prof. of Hist. and Direct. of Univ. Extens.

A.B., Brown, '70, and A.M., '73; Pres., DeVeaux Col., '81-9.

*Hist. of Reformation. iii, 10, Ap.-Jun.

*Hist. of Renaissance. iii, 10, Ap.-Jun.

*Islam and Crusades. iii, 10, Ap.-Jun.

*French Revolution. iii, 10, Ap.-Jun.

*Sem. in Med. Hist. i, 33.

BROWN.

12 Graduate Students, 1896-7.

Lib. has more than 10,000 pams., N. Eng. and Eng., period 1700-1850; Harris Coll. of Am. poetry, 7,000 vols. Hist. Coll. of R. I. Hist. Soc., books and MSS., 15,000 vols., esp. 1,700 vols. R. I. newspapers. Near by are State Law Lib., 16,000 vols., Prov. Pub. Lib., 70,000 vols., with Harris Coll. on Slavery and Civil War, 1,000 vols. and 10,000 pams.

J. FRANKLIN JAMESON, Prof. of Hist.

A.B., Amherst; Ph.D., Johns Hopkins, '82; Assoc. in Hist., Johns Hopkins, '82-8.

GEORGE G. WILSON [see 10].

Diplomacy. iii, 10, Ap.-Jun.

Political Geog. iii, 11, Ja.-Mar.

*Theory of State. iii, 12, S.-D.

*International Law. iii, 11, Ja.-Mar.

Current Polit. Theory and Practice. i, 33.

JAMES Q. DEALY [see 10].

*Devel. of Polit. Theory. iii, 12, S.-D.

Brown—Continued.

- *U. S. Constitutions. iii, 11, Ja.—Mar.
- *Comp. Consts., U. S. and Europe. iii, 10, Ap.—Jun.

THEODORE F. GREEN, Instr. in Roman Law.

- *Roman Law. iii, 11, Ja.—Mar.

BRYN MAWR.

5 Graduate Students, 1896-7.

1 Fel. \$525, in Hist. or Pol. Sci.

CHARLES M. ANDREWS, Assoc. in Hist.

A.B., Trinity, '84; Fel., Johns Hopkins, '88-9; Ph.D., same, '89.
Hist. Method and Criticism. ii, 15, O.—F.

Hist. of Roman Law. ii, 15, F.—Jun.
Hist. of the Community. i, 30.

*[English Const. Hist. ii, 30.]

*Am. Const. History. ii, 30.

Hist. Sem. i, 30.

CALIFORNIA.

8 Graduate Students, 1896-7.

Lectures on special topics in Hist. and Pol. Science are given weekly by the several members of the Dept.

BERNARD MOSES, Prof. of Hist. and Pol. Econ.

Ph.D., Heidelberg.

Pol. Science, incl. Hist. Pol. Thought since 1750. ii, 16, Ja.—My.

Theories of Social Progress. ii, 16, Au.—D.

*Spanish-American Hist. and Institutions. ii, 16, Ja.—My.

*Hist. of Political Theories. iv, 16, Au.—D.

WILLIAM CAREY JONES, Prof. of Jurisprudence.

A.M., Univ. of Cal.

Comp. Law. In '97-8, Criminal Law in Modern Europ. Codes. ii, 32.

*Const. Law of U. S. Study of Decisions. ii, 32.

*Hist. of Internat. Law. ii, 16, Au.—D.

*Principles of Jurisprudence. iv, 16, Ja.—My.

THOMAS R. BACON, Assoc. Prof. of European Hist.

A.B., Yale.

[Hist. of the Christian Church. ii, 32.]

Hist. of Eastern Christendom. ii, 32.

KENDRIC C. BABCOCK, Instr. in Hist.

Ph.D., Harvard.

Investigation Course in U. S. Hist. ii, 32.

CHICAGO.

182 Graduate Students, 1896-7; and 78 in Summer Quarter, '96.

Dept. Libs. Hist. and Pol. Sci., 5,000. Complete coll. U. S. Govt. docs. in gen. lib. Dept. lib. Hist. esp. strong in Med. Hist. Newberry Lib., containing Ayer Lib. Americana, strong in Am. Hist. Chicago Hist. Soc. Lib. rich in Chicago and Ill. hist. 7 Fels. in Hist. 3 Fels. and 2 Schols. in Pol. Sci.

H. E. VON HOLST, Head Prof. of Hist.

Ph.D., Heidelberg, '65; Prof. Extraordinarius of Hist. and Const. Law of U. S., Strassburg, '72-4; Prof. Ordinarius of Mod. Hist., Freiburg, '74-'92; Pro-Rector Magnificus of Alberto Ludoviciana, Freiburg, '87-8.

Hist. of Europe from 1815. iv, 36, O.—Jun.

Seminar. Am. Hist. ii, 36, O.—Jun.

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*General Anthropol. iv, 12, O.-D. Ethnology American Race. iv, 12, Ja.-Mar.

Prehistoric Archæology. American. iv, 12, Ap.-Jun.

[Field Work in Anthropol. Mexico. Jul.-S.]

[Prehistoric Archæology. European. iv, 12, Ap.-Jun.]

*General Ethnology. iv, 12, Ja.-Mar.

C. H. HASTINGS.

A.B., Bowdoin, '91.

Bibliography of Sociology. iv, 6, Au.-S.

CLARK.

20 Graduate Students, 1896-7.

A. F. CHAMBERLAIN [see 8].

COLUMBIA.

88 Graduate Students, 1896-7.

RICHMOND MAYO-SMITH, Prof. of Pol. Econ. and Social Science.

Ph.D. (hon.), Amherst.

*Pol. Econ. (el). ii, 14, F.-Jun. (With Mr. Day.)

Hist. and Practical Pol. Econ. Production and Consumption. iii, 16, O.-F.

Distribution. iii, 14, F.-Jun.

[Hist. and Practical Pol. Econ. Problems of Exchange. iii, 14, F.-Jun.]

Statistics and Sociology. ii, 16, O.-F. Statistics and Economics. ii, 14, F.-Jun.

Theory, Technique, and Hist. of
Stat. Sci. ii, 14, F.-Jun.
Seminar. Statistics. i, 30.
Seminar. Pract. Econ. i, 30.

EDWIN R. A. SELIGMAN, Prof. of Pol.
Econ. and Finance.

LL.B., Ph.D., Columbia, '84.

Econ. Hist. of Europe and America.
ii, 16, O.-F. (With Mr. Day.)
Sci. of Finance. ii, 30.
Financial Hist. U. S. ii, 16, O.-F.
[Indust. and Tariff Hist. U. S. ii, 14,
F.-Jun.]
Railroad Problems. ii, 14, F.-Jun.
[Hist. of Pol. Econ. ii, 30.]
Seminar. Pol. Econ. and Finance.
i, 30.

JOHN B. CLARK, Prof. of Pol. Econ.

Ph.D., Amherst, '75; Prof. Hist. and Pol.
Econ., Carleton, '77-'82; Prof. of same,
Smith, '82-'93; Lect., Johns Hopkins, '92-5;
Prof. Pol. Econ., Amherst, '92-5.

Econ. Theory. Statics. ii, 16, O.-F.
Dynamics. ii, 14, F.-Jun.
Communistic and Socialistic Theories.
ii, 16, O.-F.
Theories of Social Reform. ii, 14,
F.-Jun.
Seminar. Pol. Econ. i, 30.

FRANKLIN H. GIDDINGS, Prof. of Soci-
ology.

A.M., Union.

General Sociology. ii, 16, O.-F.
Progress and Democracy. ii, 14, F.-
Jun.
Pauperism, Poor Laws, and Charities.
ii, 16, O.-F.
Crime and Penology. ii, 14, F.-Jun.
Seminar. Sociology. i, 30.

WILLIAM Z. RIPLEY, Lect. on Anthro-
pology.

B.S., Mass. Inst. of Tech., '90; A.M., Co-
lumbia, '92; Ph.D., Columbia, '93; Assoc.

Prof. Pol. Econ. and Sociol., Mass. Inst. of
Tech., '94-7; Lect., Hartford School of Soci-
ology, '95-6.

Physical Geog., Anthropol. and Eth-
nology. ii, 16, O.-F.

LIVINGSTON FARRAND [see 7].

General Anthropology. ii, 14, F.-Jun.
Anthropology. Primitive Culture. ii,
30.

FRANZ BOAZ, Instr. in Anthropol.

Ph.D., Kielh, '88.

Physical Anthropol. ii, 30.
Applica. of Statistical Methods to
Biolog. Problems (adv.). iii, 30.
North Am. Langs. Seminar. ii, 30.

CORNELL.

8 Graduate Students, 1896-7.

1 Fel. \$600, 2 Felts. \$500 each.

J. W. JENKS [see 9].

*Economic Legislation. ii, 32.

CHARLES H. HULL, Asst. Prof. of Pol.
Econ.

Ph.B., Cornell, '86; Ph.D., Halle, '92; Instr.
in Pol. and Social Institutions, Cornell, '92-3.

*Hist. of Pol. Econ. i, 12, O.-D.

*Money, Credit and Banking. iii, 32.

*Railroad Transportation. iii, 9, Ap.-
Jun.

*Finance, Taxation, Admin. Public
Debts. ii, 32.

*[Recent Econ. Theory. Am., Eng.,
Continental. ii, 32.]

*Earlier Econ. Theory (Prior to J. S.
Mill). ii, 32.

*Financial Hist. N. Y. ii, 11, Ja.-
Mar.

Seminary. ii, 32.

CHAS. J. BULLOCK, Instr. in Economics.

A.B., Boston, '89; Ph.D., Wisconsin, '95.

Cornell—Continued.

- *Industrial Hist., Eng. and Am. ii, 32.
- *Internat. Trade and Tariff Hist. U. S. i, 32.
- *Labor Question. ii, 12, O.-D.
- *Hist. Trades Unions. ii, 11, Ja.-Mar.
- *Socialism. ii, 9, Ap.-Jun.

WALTER F. WILLCOX, Assoc. Prof. of Social Science and Statistics.

- A.B., Amherst; Ph.D., Columbia; Instr. in Philos., Cornell, '9x-2; Asst. Prof. Social Science and Pol. Econ., '9x-4.
- *Social Science (el). ii, 32.
- *Social Statistics. ii, 32.
- *Theoretical Social Science (adv). ii, 32.
- *[Practical Social Science (adv). ii, 32.]
- *Anthropology. ii, 32.
- Seminary. ii, 32.

HARVARD.

4x Graduate Students, 1896-7.

[Courses marked R are open to Radcliffe Graduate Students.]

Fel. in Pol. Econ., \$450; in Soc. Sci., \$300; in Archaeol. and Ethnol., \$300 and \$1,050, and Schol. of \$200. Prize of \$50 for Essay in Pol. Sci., two of \$100 each for essays on social questions. Peabody Mus., Am. Archaeol. and Ethnol., with Lib., is intended for research.

CHARLES F. DUNBAR, Prof. of Pol. Econ.

A.B., Harv., '51; LL.D., same, '91.

- *Financial Legislation of U. S. ii, 15, F.-Jun.
- *Financial Admin. and Pub. Debts. iii, 15, F.-Jun.
- *[Banking and Hist. of Banking Systems. ii, 15, F.-Jun.]
- Seminary. Economics. i, 30. (With Profs. Taussig, Ashley and Asst. Prof. Cummings.)

PROF. DUNBAR and H. R. MEYER.

- *Internat. Payments and Flow of Precious Metals. iii, 15, O.-Ja.

FRANK W. TAUSSIG, Prof. of Pol. Econ.

- A.B., Harv., '79, Ph.D., '83, and LL.B., '86.
- *Econ. Theory in the 19th Cent. iii, 30.
- *[Theory and Methods of Taxation. Special ref. to U. S. Local Taxation. iii, 15, O.-Ja.]
- *Econ. Hist. U. S. iii, 30. (With Mr. ——.)

WILLIAM J. ASHLEY, Prof. of Econ. Hist.

- A.B., Oxford, '81, and A.M., '85; Fel., Lincoln Col., and Lect. on Hist., Lincoln and Corpus Christi Col., Oxford, '85-8; Prof. Pol. Econ. and Const. Hist., Toronto, '88-'92.
- *[Mediaeval Economic Hist. of Europe. ii-iii, 30.]
- *Mod. Econ. Hist. of Europe and Am. since 1500. ii-iii, 30.
- *Hist. and Lit. of Economics to close of 18th Cent. ii-iii, 30.
- *Scope and Method in Econ. Theory and Invest. iii, 15, F.-Jun.

EDWARD CUMMINGS, Asst. Prof. of Sociology.

A.B., Harv., '83; A.M., same, '85.

- *Princ. of Sociology. Devel. of Modern State. ii-iii, 30.
- *Socialism and Communism. ii-iii, 30.
- *Labor Question in Europe and U. S. iii, 30. (With Dr. John Cummings.)

JOHN CUMMINGS, Instr. in Pol. Econ.

A.B., Harv., '91; Ph.D., Chicago, '94.

- *Theory and Method of Statistics. iii, 30.

- *Public Works, Railways, etc., under Corporate and Pub. Management. iii, 15, F.-Jun.

FRANCIS G. PEABODY, Prof. of Christian Morals.

A.B. Harv., '69; A.M. and S.T.B., '72; S.T.D., Yale, '87.

*Ethics of Social Questions. iii, 30. (With Dr. Rand.)

Sociolog. Sem. Christian Doct. of the Social Order. ii, 30.

FREDERICK W. PUTNAM, Prof. of Archæology and Ethnology, and Curator of Peabody Museum.

A.M. (hon.), Williams, '68; S.D. (hon.), Univ. of Pa., '94; Curator Dept. Anthropol., Am. Mus., Central Park, N. Y.

R) Am. Archæol. and Ethnol. Research.

F. RUSSELL, Asst. in Anthropology.

S.B., Univ. of Iowa, '92, and S.M., '95; Asst., same, '94-5.

*Gen. Anthropology, Archæology, Ethnology. iii, 30. (With an Asst.)

R) Somatology. iii, 15, F.-Jun.

R) Somatology (adv). Research — ?

JOHNS HOPKINS.

16 Graduate Students, 1896-7.

SIDNEY SHERWOOD, Assoc. Prof. of Pol. Econ.

Ph.D., Johns Hopkins, '91.

Comparative Banking. ii, 15, O.-F. French Economists in 19th Century. ii, 15, F.-My.

Econ. Conference. ii, fort., 30.

American Economics. ii, 30.

Economics (adv). ii, 15, F.-My.

JACOB H. HOLLANDER, Assoc. in Economics.

Ph.D., Johns Hopkins, '94.

Hist. and Theory of Indust. Crises ii, 15, O.-F.

Taxation. ii, 15, F.-My.

Reading in Ricardo. i, 15, F.-My.

Economics (adv). ii, 15, O.-F.

LELAND STANFORD, JR.

7 Graduate Students, 1896-7.

AMOS G. WARNER, Prof. of Applied Economics.

B.L., Nebraska, '85; Ph.D., Johns Hopkins, '88; Prof. of Pol. Econ., Nebraska, '87-'91.

Corporate Industry. iii, 14, S.-D.

*Personal Economics. ii, 14, S.-D. Sem. ii, 32. (With Profs. Ross, Powers and Smith.)

EDWARD A. ROSS, Prof. of Econ. Theory and Finance.

A.B., Coe Col., '86, Ph.D., Johns Hopkins, '91; Prof. of Econ. and Social Science, Indiana, '91-2; Assoc. Prof. of Pol. Econ. and Finance, Cornell, '92-3.

Econ. Theory (adv). ii, 14, S.-D. Contemporary Production. ii, 18, Ja.-My.

*Cities. ii, 18, Ja.-My.

*Sociology. iii, 32.

*Education and Society. ii, 14, S.-D.

HARRY H. POWERS, Prof. of Econ.

A.B., and B.L., Wis., '82, and A.M., '87; Instr., same, '85-6; Prof. French, Oberlin, '88-'92; Prof. Econ. and Sociology, Smith Col., '93-5.

Production and Consumption (adv). iii, 32.

Primitive Social Institutions. ii, 32.

MARY R. SMITH, Asst. Prof. of Social Sci.

Ph.B., Cornell, '80, and M.S., '82; Ph.D., Stanford, '96; Instr. in Hist. and Econ., Wellesley, '86-'90.

*Statistics and Sociology. iii, 18, Ja.-My.

MICHIGAN.

11 Graduate Students, 1896-7.

HENRY C. ADAMS, Prof. of Pol. Econ. and Finance.

A.B., Iowa Col., '74; Ph.D., Johns Hopkins, '78; Lect., Johns Hopkins and Cornell; Statistician to Interstate Commerce Commission;

Michigan—Continued.

Special Expert Agent on Transportation, 11th Cens.; Director of Economics, School of Applied Ethics.

[Absent 1897-8.]

- [Devel. and Significance of Eng. Pol. Econ. iii, 6, O.-N.]
- [Devel. and Significance of Hist. School of Econ. iii, 6, O.-N.]
- [Devel. and Significance of Austrian School of Econ. iii, 6, O.-N.]
- [Relations of the State to Industrial Action. iii, 6, F.-Mar.]
- [Labor Organizations and Corporations as Factors in Industrial Organization. iii, 6, F.-Mar.]

F. M. TAYLOR, Junior Prof. of Pol. Econ. and Finance.

A.B., Northwestern, '76, and A.M., '79; Ph.D., Mich., '88; Prof. of Hist. and Politics, Albion, '79-'92.

- *Hist. and Theory of Money and Banking. ii, 17, O.-F.
- Hist. of Pol. Econ. ii, 17, F.-Jun.
- *Principles of Finance. ii, 17, F.-Jun.
- Sem. Economics. ii, 17, F.-Jun.
- *Socialism. ii, 17, F.-Jun.
- The Value of Money, Theory and Statistics. iii, 6, O.-N.
- [The Standard of Value. iii, 6, N.-D.]
- [Paper Money. iii, 6, O.-N.]
- Social Philos., with spec. ref. to Econ. Probs. iii, 6, F.-Mar.
- [Credit as a Factor in Production. iii, 6, Mar.-Ap.]
- [The Agricult. Problem. iii, 6, Mar.-Ap.]

F. H. DIXON, Act. Asst. Prof. of Pol. Econ.

Ph.B., Mich., '92, and Ph.D., '95.

The Agricult. Problem. iii, 6, N.-D. Public Control of Railways. iii, 6, Mar.-Ap.

*Hist. Devel. of Industrial Society. ii, 17, O.-F.

*Transportation Problems. iii, 17, F.-Jun.

Sem. Economics. ii, 17, O.-F.
*Industrial Hist. U. S. ii, 17, O.-F.

C. H. COOLEY, Instr. in Sociology.

A.B., Mich., '87; Ph.D., same, '94.

- *Principles of Sociology. iii, 17, O.-F. Problems, F.-Jun.
- *Sociology (adv.). ii, 17, F.-Jun.
- Histor. Devel. of Sociolog. Thought. iii, 6, Ja.-F.
- Nature and Process of Social Change. iii, 6, My.-Jun.
- [Aims and Methods in Study of Society. iii, 6, Ja.-F.]
- Town and Country. Distribution of Population. iii, 6, My.-Jun.
- [Current Changes in Social Organization of U. S. iii, 6, My.-Jun.]
- [Theory of Population. iii, 6, Ja.-F.]
- *Theory of Statistics. i, 34.
- *Special Studies in Statistics. ii, 17, F.-Jun.

MINNESOTA.

22 Graduate Students, 1896-7.

WILLIAM W. FOLWELL [see 9].

- Pol. Sci. Seminar. i, 36.
- Theory and Practice of Statistics. i, 24.
- Individual Research. ii, 36.

FRANK L. MCVEY, Instr. in Economics.

A.B., Ohio Wesleyan, '93; Ph.D., Yale, '95; Instr. in Hist., Teachers' College, N. Y., '96.

Comparative Econ. Doctriné. ii, 36.

*Economics. iv, 13, S.-N.

*Pol. Organization of the State. iv, 12, N.-Mar.

*Mod. Industrialism. iv, 12, Mar.-Jun.

Economic History. i, 36.

SAMUEL G. SMITH, Lect. on Sociology.

A.B., Cornell Col., '72; A.M., and Ph.D., Syracuse, '84; D.L., Upper Iowa Univ., '86.

*Social Science. iii, 12, Mar.-Jun.

Individual Research. iv, 36.

NEW YORK.

16 Graduate Students, 1896-7.

FRANK M. COLBY, Prof. of Economics.

A.B., Columbia, '88, and A.M., '89.

Practical Economics. ii, 24.

Economic Theory. ii, 24.

Hist. of Indust. Devel. ii, 30.

F. RUSSELL, Prof. of Sociology, and of Law of Contracts in N. Y. U. Law School.

A.M., N. Y. U., '78; LL.M., Yale, '79; D.C.L., Yale, '80; LL.D., Dickinson, '93; Prof. Econ., and Const. Law, N. Y. U., '80-'93.

Intro. to Sociology. ii, 30.
[Principles of Sociology. ii, 30.]

NORTHWESTERN.

1 Graduate Student, 1896-7.

JOHN H. GRAY, Prof. of Political and Social Science.

A.B., Harvard, '87; Ph.D., Halle, '92; Instr. in Econ., Harvard, '87-9.

Administration. ii, 36.

*[Finance. ii, 36.]

*Seminary. ii, 36.

WILLIAM CALDWELL, Prof. of Moral and Social Philosophy.

A.M., Pass Degree, Edinburgh, '84; A.M., and Honors of First Class, same, '86; Asst. Prof. of Philos., same, '88-'90; Instr., Cornell, '90-1; Instr., Chicago, '92-4; Fellow, Edinburgh, '86-'93, and Sc.D., '93.

*Seminary. Ethical Philos. ii, 36.

*Seminary. Sociology. iii, 36.

PENNSYLVANIA.

25 Graduate Students, 1896-7.

Colwell Lib. of Pol. Econ., 7,000 vols. *Carey Lib.*, rich in Statistics, including 3,000 Eng. Pamphlets. 1 Fel. of \$600, 1 Scholarship of \$100.

SIMON N. PATTEN, Prof. of Pol. Econ.

Ph.D., Halle.

Hist. of Pol. Econ. ii, 15, O.-F.

Recent Devel. in Pol. Econ. ii, 15, F.-My.

Relat. of Eng. Philos. to Econ. in 18th Cent. ii, 15, O.-F.

[Scope and Method of Pol. Econ. ii, 15, F.-My.]

[Pract. Applications of Econ. Theory. ii, 15, O.-F.]

Problems of Sociol. ii, 15, F.-My.

Special Topics. ii, 30.

HENRY R. SEAGER, Asst. Prof. of Pol. Econ.

Ph.B., Mich., '90; Ph.D., Univ. of Pa., '94; Instr. in Pol. Econ., same, '94-6.

Econ. Conference. ii, 30.

Adv. Reading in Ger. and Fr. Economics. ii, 30.

Eng. Indust. Hist. and Devel. of Econ. Theory, 1750-1870. ii, 30.

EMORY R. JOHNSON, Asst. Prof. of Transportation and Commerce.

B.L., Univ. of Wis., '88; M.L., same, '91;

Fel. in Econ., Univ. of Pa., '92-3; Ph.D., same, '93; Lect. on Transporta., same, '93-4; Instr., same, '94-6; Instr. in Econ., Haverford, '93-6.

Theory of Transportation. i, 30.

Am. Railway Transportation. ii, 30.
[Transportation Systems of the United Kingdom and Germany. i, 30.]

Hist. of Commerce since 1500. i, 30.

ROLAND P. FALKNER, Assoc. Prof. of Statistics.

A.B., Cent. High School, Phila., '83; Ph.B., Univ. of Pa., '85; Ph.D., Halle, '88; Instr. in Statistics, '88-91.

Intro. to Statistics. ii, 15, O.-F.

Statistics of Econ. Problems. ii, 15, F.-My.

Hist. and Theory of Statistics. ii, 15, O.-F.

Statistical Organization. ii, 15, F.-My.

Pennsylvania—Continued.

SAMUEL M. LINDSAY, Asst. Prof. of Sociol.
Ph.B., Univ. of Pa., '89; Ph.D., Halle, '92.
Theory of Sociol. (2 yr. course).
ii, 30.
Social-Debtor Classes. ii, 30.
Sociol. Field Work. ii, 30.

PRINCETON.

6 Graduate Students, 1896-7.

1 Fellowship, \$500.

WINTHROP M. DANIELLS, Prof. of Pol. Econ.
A.B., Princeton, '88, and A.M., '90; Instr., Wesleyan, '91-2.
*Public Finance. ii, 18, S.-Ja.
*Hist. of Pol. Econ. ii, 18, F.-My.

W. A. WYCKOFF, Lect. on Sociology.
A.B., Princeton, '88, and A.M., '91.
*Sociology. ii, 18, F.-My.

RADCLIFFE.

1 Graduate Student, 1896-7.

[See Harvard Courses marked R.]

Seminary in Economics, with Profs. Taussig, Ashley and Cummings.

W. J. ASHLEY.

*[Med. Econ. Hist. of Europe. iii,
30.]
*Mod. Econ. Hist. of Europe and Am.
since 1500. iii, 30.
*Hist. and Lit. of Pol. Econ. to 1750.
iii, 30.

[One of the last two courses will be omitted.]

EDWARD CUMMINGS AND JOHN CUMMINGS.

*Soc. and Econ. Condi. of Working-
men. iii, 30.

EDWARD CUMMINGS.

*Princ. of Sociol. iii, 30.

JOHN CUMMINGS.

*Theory and Methods of Statistics.
iii, 30.

MR. ____.

*Econ. Hist. of U. S. —?

F. RUSSELL.

*Gen. Anthropology, Archæology, Ethnology. iii, and lab., 30. (With Assts.)

VANDERBILT.

2 Graduate Students, 1896-7.

W. C. BRANHAM [see 9].

Theory Pol. Econ. Growth Corporate
Industry. iii, 32.
Magazine Club. Biweekly.

WELLESLEY.

2 Graduate Students, 1896-7.

KATHARINE COMAN [see 9].

*Indust. Hist. of U. S. iii, 17, F.—
Jun.
*[Indust. Hist. of Eng. iii, 17, S.-Ja.]
*Statistical Study of Problems in the U.
S. iii, 17, S.-Ja.

EMILY GREENE BALCH, Instr. in Economics.

A.B., Bryn Mawr.

*Socialism. iii, 17, F.—Jun.
*Evolution and Present Conditions of
Wage-Labor. iii, 17, S.-Ja.
*Social Economics. iii, 17, S.-Ja.;
also F.—Jun.

WESTERN RESERVE.

5 Graduate Students, 1896-7.

S. F. WESTON, Assoc. Prof. of Pol. and Soc. Sci.

A.B., Antioch, '79, and A.M., '85; Asst. in Economics, Columbia, '92-4.

*Economic Hist. iii, 16, S.-Ja.
Economic Theories. iii, 16, S.-Ja.
*State and Civil Govt. iii, 16, S.-Ja.
*Social Theories. iii, 17, F.-Jun.
*Pauperism and Charities. iii, 17, F.-Jun.

*Money and Banking. iii, 17, F.-Jun.
U. S. Tariff and Revenue System.
iii, 17, F.-Jun.

WISCONSIN.

25 Graduate Students, 1896-7.

Location at the State capital gives special facilities for studying the State's activities and methods of administration. Field Work in charitable and correctional institutions in Madison and Chicago. Opportunity for continuous practical work during summer months.

RICHARD T. ELV, Prof. of Pol. Econ. and Director of the Sch. of Econ., Pol. Science, and Hist.

A.B., Columbia, '76; Ph.D., Heidelberg, '79; LL.D., Hobart, '92; Chair of Pol. Econ., Johns Hopkins, '81-'92.

Distribution of Wealth. ii, 36.
Public Finance. iii, 18, S.-F.
Taxation and Am. Public Finance. iii, 18, F.-Jun.

[Social Ethics. ii, 18, S.-F.]

[Socialism. ii, 18, S.-F.]

Economic Seminary. Scope and Method of Economics. ii, 36.
(With Prof. Scott and Dr. Jones.)

WILLIAM A. SCOTT, Prof. of Econ. Hist. and Theory.

A.B., Rochester, '86; Prof. Hist. and Pol. Econ., Univ. So. Dak., '87-'90; Instr. in Hist., Johns Hopkins, '91-2; Ph.D., Johns Hopkins, '92.

Theories of Value. ii, 18, S.-F.

[Theories of Rent, Wages, Profits and Interest. ii, 36.]

Theories of Production and Consumption. ii, 18, F.-Jun.

JEROME H. RAYMOND, Prof. of Sociology, and Sec. Univ. Extens. Dept.

A.B., Northwestern, '92, and A.M., '93; Lect. Chi. Soc. for Univ. Extens., '92-3; Prof. Hist. and Pol. Sci., Lawrence, '93-4; Lect. in Sociol. Univ. Extens. Div., Chicago, '94-5; Asst. in Sociology, and Ph.D., same, '95.

*Anthropology. Evolution of Society.
iii, 18, S.-F.

*Ethnology. iii, 18, F.-Jun.

*Els. of Sociology. iii, 18, S.-F.
Hist. Survey of Sociol. Thought. iii,
18, F.-Jun.

Telic Sociology. Social Ideals. iii,
18, S.-F.

Dynamic Sociology. Social Forces.
iii, 18, F.-Jun.

Eng. Social Movements. Seminary.
ii, 36.

FRANK C. SHARP [see 7].

Social Ethics. ii, 18, F.-Jun.

Readings in Ger. Social Philos. ii, 18,
S.-F.

YALE.

37 Graduate Students, 1896-7.

Pol. Science Club meets fortnightly. Club Room with Library for Graduate Students.

W. G. SUMNER, Prof. of Pol. and Soc. Sci.

A.B., Yale, '63; LL.D., Tenn., '84.

[Politics and Finance in Hist. of U. S.
ii, 32.]

[Anthropology. i, 32.]

[Systematic Sociotology. i, 32.]

Indust. Rev. Renaissance Period. ii, 32.

Begin. of Indust. Organization. ii, 32.

*Science of Society. ii, 32.

H. W. FARNAM, Prof. of Pol. Econ.

A.B., Yale, '74; R.P.D., Strasburg, '78.

Yale—Continued.

[Economics of Poor Relief. i, 32.]
 Modern Organiza. of Labor. iii, 12,
 O.-D.
 Princs. Pub. Finance. ii, 20, Ja.-Jun.

A. T. HADLEY, Prof. of Pol. Econ.

A.B., Yale, '76, and A.M., '87.

Econ. Problems of Corporations. i,
 32.
 Relat. between Econ. and Ethics. i,
 32.

*Hist. of Pol. and Econ. Theory. i, 32.
 *Railroad Transportation. i, 32.

A. T. HADLEY and IRVING FISHER.

*Economics (gen. course). iii, 32.

W. F. BLACKMAN [see 7].

Social Science. ii, 32.

Histor. Study of Marriage and the
 Family. i, 12, O.-D.

J. C. SCHWAB, Asst. Prof. of Pol.
 Science.

A.B., Yale, '86, and A.M., '88; Ph.D., Göttingen, '89.

Finance. ii, 32.
 U. S. Indust. Hist. ii, 32.
 U. S. Financial Hist. i, 32.
 U. S. Public Finance. i, 12, O.-D.
 Finances of Confed. States, 1861-65.
 i, 20, Ja.-Jun.

IRVING FISHER, Asst. Prof. of Pol.
 Econ.

A.B., Yale, '88, and Ph.D., '91.

Theory of Economics (adv.). ii, 32.
 Statistics. ii, 20, Ja.-Jun.
 Vital Statistics and Life Insurance.
 ii, 12, O.-D.

11. FINE ARTS, AND THE HISTORY OF ART.

[Including Classical Archaeology (but see also 2). Also Theory of Music.]

BARNARD.

4 Graduate Students, 1896-7.

[See Columbia Courses marked B.]

BROWN.

3 Graduate Students, 1896-7.

WILLIAM C. POLAND, Prof. of Hist. of
 Art and Director of Museum of Fine
 Arts.

*Class. Archaeology. iii, 12, S.-D.
 *Early Christ. and Med. Art. iii, 11,
 Ja.-Mar.
 *Art of the Renaissance. iii, 10, Ap.-
 Jun.
 *Art in 17th and 18th Cents. iii, 12,
 S.-D.
 *Art in 19th Cent. iii, 11, Ja.-Mar.

*Theory and Criticism. iii, 10, Ap.-
 Jun.
 Crit. Study of Class. Architecture. iii,
 12, S.-D.
 Hist. of Greek and Roman Sculpture.
 iii, 21, Ja.-Jun.
 [Pausaniae descriptio arcis Athenarum.
 iii, 10, Ap.-Jun.]

J. N. ASHTON, Instr. in Mus. Theory
 and Hist.

A.B., Brown, '91; A.M., Harv., '93.

*Fugue, Free Composi. and Instrumen-
 tation. iii, 33.
 *Structure and Hist. of Music. iii,
 33.
 *Sacred Music. iii, 10, Ap.-Jun.
 The Symphony. iii, 33.
 The Song. iii, 33.

BRYN MAWR.

2 Graduate Students, 1896-7.

RICHARD NORTON, Lect. in the History of Art.

A.B., Harv., '92.

[Absent 1897-8.]

[Class. Archæol. ii, 30.]

* [Hist. of Gk. Art. ii, 30.]

* [Hist. of Ital. Art. ii, 30.]

CALIFORNIA.

1 Graduate Student, 1896-7.

HENRY T. ARDLEY, Assoc. Prof. of Decorative and Industrial Art.

S.A., Col. of Applied Art, London.

Historic Design. ii, 32.

Life Class. vi, 32.

CHICAGO.

13 Graduate Students, 1896-7; and 10 in Summer Quarter, '96.

FRANK B. TARRELL [see 2].

Intro. to Classical Archæol. iv, 12, O.-D.

Hist. of Gk. Sculp. iv, 12, Ja.-Mar. Greek Vases and Coins. iv, 12, Ap.-Jun.

WARDNER WILLIAMS, Instr. in Music.

Ph.B., Alfred Univ., '80; Ph.M., '83; Mus.B., '87; Ph.D., '90: Prof. of Music, Milton Col., '80-5; Director of Music, Alfred Univ., '85-'92; Reader in Music, Chicago, '92-4; Asst. in Music, '94-6; Mus.Doc., Milton Col., '96.

Harmony (el.). v, 12, O.-D.

Harmony (adv.). v, 12, Ja.-Mar.

Counterpoint. v, 12, Ap.-Jun.

Hist. of Music. v, 12, O.-Ja.

Theory of Music. v, 12, O.-Ja.

[NOTE.—These courses in Music do not count towards a degree.]

COLUMBIA.

6 Graduate Students, 1896-7.

E. A. MACDOWELL, Professor of Music.

Prof. Piano and Ensemble, Conserv. Darmstadt, '82-3; Mus. D., Princeton, '96; Prof. Music, Columbia, '96.

General Music Course. ii, 30.

Devel. of Form. ii, 30.

Lectures and Class Work. ii, 30.

CORNELL.

4 Graduate Students, 1896-7.

Instruction given in connection with the Museum of Class. Archæol., over 500 large casts of sculpture representing the hist. of Greek and Roman sculptural art. 1 Grad. Schol. \$300, assigned to Class. Archæol. and Comp. Philol.

HARVARD.

36 Graduate Students, 1896-7.

[Courses marked R are open to Radcliffe Graduate Students.]

Fogg Art Museum contains a large collection of casts and photographs.

CHARLES ELIOT NORTON, Prof. of the History of Art.

A.B., Harv., '46, and A.M., '49; Litt.D., Cambridge, '84; LL.D., Harv., '87; L.H.D., Columbia, '88.

*[Roman and Mediæval Art. iii, 30.]

* [Ancient Art. iii, 30.]

JOHN K. PAINE, Prof. of Music.

A.M. (hon.), Harv., '69; Mus.D., Yale, '90.

* Hist. of Music. i-ii, 30.

* [Instrumentation. i, 30.]

* Chamber Music of Beethoven and other masters. ii, 30.

R) Canon and Fugue. Free Thematic Music. ii, 30.

R) Adv. Canon and Fugue and Free Composi. ii, 30.

Harvard — *Continued.*

WALTER R. SPALDING, Instr. in Harmony.

A.B., Harv., '87, and A.M., '88.

*Harmony. ii-iii, 30.

*Counterpoint. ii, 30.

MICHIGAN.

4 Graduate Students, 1896-7.

M. L. D'OOGE [see 2].

*Hist. of Greek Art. iii, 17, O.-F.
Inscriptionum Græcorum. ii, 17, F.-
Jun.

Gk. Antiquities. Lects. on Monu-
ments, and Private Life of Athen-
ians. i, 17, F.-Jun.

FRANCIS W. KELSEY [see 2].

*Intro. to Roman Archaeology. iv, 17,
F.-Jun.

JAS. A. CRAIG [see 1].

*Assyrian-Babylonian Archaeol. Baby-
lonian Art, from earliest times. ii,
17, O.-F.

A. A. STANLEY, Prof. of Music.

A.M., Mich., '90.

*Canon and Fugue. ii, 34.

*Musical Form. ii, 34.

Free Composition. ii, 34.

Instrumentation. ii, 34.

PRINCETON.

4 Graduate Students, 1896-7.

Fellowship of \$400 in Archaeology.

A. L. FROTHINGHAM, JR., Prof. of Ar-
chæology and Hist. of Art.

A.M. and Ph.D., Leipzig, '93.

*Etruscan and Roman Art. ii, 18, S.-
Ja.

*Hist. of Sculpture. ii, 18, F.-My.

H. C. BUTLER, Lect. on Architecture.

A.B., Princeton, '92, and A.M., '93.

*Early Christian and Romanesque Ar-
chitecture. ii, 18, S.-Ja.

*Gothic and Renaissance Architecture.
ii, 18, F.-My.

RADCLIFFE.

3 Graduate Students, 1896-7.

[See Harvard Courses marked R.]

JOHN K. PAINE.

*[Hist. of Music. i, 30.]

*Chamber Music of Beethoven and
other masters. ii, 30.

MR. SPALDING.

*Harmony. iii, 30.

*Counterpoint. iii, 30.

VANDERBILT.

12 Graduate Students, 1896-7.

H. C. TOLMAN [see 2].

Classical Archaeology. i, 8.

WELLESLEY.

○ Graduate Students, 1896-7.

ALICE VAN VECHTEN BROWN, Prof. of
Art.

*Italian Renaissance Painting. iii, 17,
S.-Ja.

*History of Ornament. iii, 17, F.-Jun.

*Greek Mythology. i, 35.

ALICE WALTON, Instr. in Ancient Art.

A.B., Smith, '87; Ph.D., Cornell, '92.

*Outlines of Greek Art, with esp. ref. to Architecture and Ceramics. iii, 17, S.-Ja.

*Greek Sculpture. iii, 17, F.-Jun.

WESTERN RESERVE.

1 Graduate Student, 1896-7.

H. N. FOWLER [see 2].

*Greek Archaeology. iii, 17, F.-Jun.

*Hist. of Ancient Art. iii, 36.

*[Hist. of Post-Classical Art. iii, 36.]

S. B. PLATNER [see 2].

*Roman Archaeology. iii, 16, S.-Ja.

YALE.

10 Graduate Students, 1896-7.

Lowell Mason Lib. has large coll. of church music.

T. D. GOODELL [see 2].

*Intro. to Gk. Archaeology. ii, 32.

J. F. WEIR, Prof. of Painting and Design.

A.M., Yale, '91.

Technical Course in Painting. iv, 32.
Course in Modeling. iv, 32.

J. H. NIEMEYER, Prof. of Drawing.

A.M., Yale, '74.

Drawing. iv, 32.

J. M. HOPPIN, Prof. of Hist. of Art.

A.B., Yale, '40; LL.B., Harvard, '42; D.D., Knox, '79; Prof. of Homiletics and Pastoral Theol., Yale, '61-'79; Lect. on Forensic Eloquence, Yale Law School, '72-5.

History of Art. i, 20, Ja.-Jun.

H. W. PARKER, Prof. of Theory of Music.

A.M., Yale, '94.

*Harmony. ii, 32.

*Counterpoint. ii, 32.

*Strict Composition. ii, 32.

*Instrumentation. ii, 32.

Free Composition. ii, 32.

S. S. SANFORD, Prof. of Applied Music.

A.M., Yale, '94.

Pract. Music (organ and piano). — ?

III. PURE SCIENCE.

12. MATHEMATICS.

BARNARD.

2 Graduate Students, 1896-7.

THOMAS SCOTT FISKE, JR.

Calculus (adv). iii, 16, O.-F.
 Differential Calculus. iii, 14, F.-Jun.
 Gen. Theory of Functions. iii, 30.

FRANK M. COLE.

Theory of Substitutions. iii, 30.

J. BRUCE CHITTENDEN, Tutor in Math.
 Theory of Invariants. iii, 14, F.-Jun.

JAMES MACLAY, Instr. in Math.

Analyt. Theory of Curves of Double
 Curvature and Curved Surfaces. iii,
 30.

JOHN E. HILL, Tutor in Math.

Higher Plane Curves. iii, 16, O.-F.

GEORGE H. LING, Asst. in Math.

Theory of Numbers. iii, 30.

BROWN.

7 Graduate Students, 1896-7.

NATHANIEL F. DAVIS, Prof. of Pure
 Math.

A.B., Brown, '70, and A.M., '73; LL.D.,
 Colby, '94; Instr. Math., Brown, '74-9; Asst.
 Prof., '79-'89; Assoc. Prof., '89-'90.

*Applications of the Calculus. iii, 11,
 Ja.-Mar.

BENJAMIN F. CLARKE, Prof. of Mechan.
 Engineering.

A.B., Brown, '63, and A.M., '66; Instr. Math.,
 same, '63-8; Prof. Math. and Civ. Engin.,
 '68-'93.

*Mechanics of Solids. iii, 33.
 Mechanics of Fluids. iii, 23, S.-Mar.

HENRY P. MANNING, Asst. Prof. of
 Math.

A.B. and A.M., Brown, '86; Fel., Johns
 Hopkins, '90-1, and Ph.D., '91.

*Diff. Equations. iii, 23, S.-Mar.
 [Theory of Functions. iii, 33.]
 Applica. of Theory of Functions. i,
 33.
 [Substitutions and Transformation
 Groups. iii, 33.]
 Mod. Algebra, Higher Plane Curves
 and Surfaces. iii, 33.]
 Diff. Equations (adv). iii, 33.

BRYN MAWR.

6 Graduate Students, 1896-7.

x Fellowship, \$525.

CHARLOTTE A. SCOTT, Prof. of Math.

Graduate in honors, Girton Col., '80; B.Sc.,
 Univ. of London, '82; Lect. on Math., Girton,
 '80-4; Lect. in connection with Newnham
 Col., '80-3; D.Sc., Univ. of London, '85.

Elliptic and Hyperelliptic Curves. ii,
 30.

*Modern Analyt. Geom. ii, 30.

JAMES HARKNESS, Prof. of Math.

Major Schol., Trinity Col., Cambridge, '82;
 Graduate in honors (8th Wrangler) in Cam-
 bridge Math. Tripos, '85; Math. Exhibitioner,
 London Univ. Intermediate Arts Examination,
 '85; Math. Schol., London Univ. B.A. Exam.,
 '87; A.M., Univ. of Cambridge.

Theory of Groups. ii, 30.
 *Special Differential Equations. ii, 30.

ISABEL MADDISON, Reader in Math.

Graduate in honors, Girton Col., '98; B.Sc., Univ. of London, '93; Ph.D., Bryn Mawr, '96.

*Anal. Geom. of Three Dimensions. i, 30.

CALIFORNIA.

13 Graduate Students, 1896-7.

IRVING STRINGHAM, Prof. of Mathematics.

A.B., Harvard; Ph.D., Johns Hopkins.
 Theory of Functions of Real Variables. ii, 32.
 [Transformation Groups and Diff. Equations. ii, 32.]
 Absolute Geom. ii, 32.
 [Spherical Harmonics. ii, 32.]
 Mathematical Sem. i, 32.
 *Hist. of Math. ii, 32.
 Logic of Math. ii, 32.

GEORGE C. EDWARDS, Assoc. Prof. of Math.

Ph.B., Univ. of Cal.
 *Differential Equations. iii, 32.

MELLEN W. HASKELL, Assoc. Prof. of Math.

A.M., Harvard; Ph.D., Göttingen.
 Higher Geometry. iii, 32.
 [Abelian Functions. ii, 32.]
 [Theory of Algebraic Forms. ii, 16, Au.-D.]
 [Theory of Numbers. ii, 16, Ja.-My.]
 Theory of Substitutions. ii, 32.
 *Selected Topics in Higher Math. ii, 32.

ARCHIE B. PIERCE, Instr. in Math.

A.M., Harvard.
 *Analyt. Projective Geom. iii, 32.
 *[Quaternions (el). iii, 32.]

CHARLES A. NOBLE, Fellow in Math.
 B.S., Univ. of Cal.

Partial Diff. Equations. iii, 16, Au.-D.

Theory of Functions of Complex Variables (intro). iii, 16, Ja.-My.

*[Elliptic Functions. ii, 32.]

CHICAGO.

46 Graduate Students, 1896-7; and 52 in Summer Quarter, '96.

Math. Club, directed by the corps of instrs., meets fortnightly. 3 Fels.

E. HASTINGS MOORE, Head Prof. of Math.

A.B., Yale, '83, and Ph.D., '85; Tutor in Math., same, '87-9; Asst. Prof. of Math., Northwestern, '89-91, and Assoc. Prof., '91-2; Prof. of Math., Chicago, '92-6.

Abstract Groups. iv, 12, Jul.-S.
 Projective Geometry. iv, 12, Jul.-S.
 Theory of Numbers. iv, 12, O.-D.
 General Arithmetic. iv, 24, Ja.-Jun.
 Groups Seminar. ii, 24, O.-Mar.

OSKAR BOLZA, Prof. of Math.

Ph.D., Göttingen, '86; Reader in Math., Johns Hopkins, '88-9; Assoc. in Math., Clark, '89-92.

Hyperelliptic Functions. iv, 12, Jul.-S.
 Integral Calculus (adv). iv, 12, Jul.-S.

Theory of Invariants. iv, 18, O.-F.
 *Integral Calculus (adv). v, 24, O.-Mar.
 Calculus of Variations iv, 6, F.-Mar.

HEINRICH MASCHKE, Assoc. Prof. of Math.

Ph.D., Göttingen; Prof. of Math., Luisenstädtische Gymnasium, Berlin, '80-'90; Asst. Prof. of Math., Chicago, '92-6.

Linear Substitution Groups. iv, 12, O.-D.

*Solid Analytics. v, 12, O.-D.
 Diff. Geom (adv). iv, 12, Ja.-Mar.

Chicago — *Continued.*

Functions of Complex Variables. iv, 12, Ja.—Mar.
 Linear Diff. Equations. iv, 12, Ap.—Jun.
 Projective Geometry. iv, 12, Ap.—Jun.

J. W. A. YOUNG, Asst. Prof. of Math.
 A.B., Bucknell, '87, and A.M., '90; Fel. in Math., Clark, '89—'92, and Ph.D., '92; Tutor in Math., Chicago, '92—3, and Instr., '94—7.
 Mathematical Pedagogy. iv, 6, Jul.—Au.
 *Determinants. v, 6, Au.—S.

JAMES H. BOYD, Instr. in Math.

A.B., Princeton, '86, A.M., '88, and Sc.D., '92; Prof. of Math., Macalester Col., '87—'90, and '91—2; Assoc. in Math., Chicago, '93—5.
 *Diff. Equations. Physical and Astronomical Problems. v, 12, Ap.—Jun.

HARRIS HANCOCK, Instr. in Math.

A.B., Johns Hopkins, '88; A.M. and Ph.D., Berlin, '94; Asst. in Math., Chicago, '92—5, and Assoc., '95—7.
 *Theory of Equations (adv). v, 24, Ja.—Jun.

EDGAR O. LOVETT, Lecturer on Math.

Ph.D., Univ. of Va., '94; Ph.D., Leipzig, '96; Lect. on Math., Univ. of Va.
 Geometry of Transformation Groups. ii, 12, Jul.—S.

CLARK.

9 Graduate Students, 1896—7.

Two Fels. \$600 each, two \$400 each; two Schols. \$200 each, two \$100 each.

WILLIAM E. STORY, Prof. of Math.

A.B., Harv., '71; Parker Fellow, '74—5; Ph.D., Leipzig, '75; Tutor in Math., Harv., '75—6; Assoc. Prof. Math., Johns Hopkins, '76—89.

Simultaneous Algebraic Equations (adv). ii, 18, O.—Ja.
 Enumerative Geom. (adv). iii, 17, Ja.—Jun.
 Seminary (adv). i, 35.
 Analytic Geometry of Higher Surfaces and Twisted Curves (intro). iii, 18, O.—Ja.
 Algebraic Invariants (intro). ii, 17, Ja.—Jun.

HENRY TABER, Asst. Prof. of Math.

Ph.B., Yale, '82; Ph.D., Johns Hopkins, '88; Asst. in Math., Johns Hopkins, '88—9; Docent in Math., Clark, '89—92.
 Continuous Groups (adv). ii, 35.
 Analytic Geom. of Conic Sections, Quadric Surfaces, and Higher Plane Curves. Diff. Equations, Elliptic Functions and Calculus of Variations (intro). vi, 35.
 Seminary, with intro. courses. i, 35.

JOSEPH DE PEROTT, Docent in Math.

Theory of Numbers (adv). ii, 18, O.—Ja.
 Algebraic Substitutions and their Applications to the Theory of Equations (intro). ii, 17, Ja.—Jun.

COLUMBIA.

to Graduate Students, 1896—7.

Collection of math. models and apparatus purchased by Pres. Low from German Univ. Exhibit at Chicago Exposition.

J. HOWARD VAN AMRINGE, Prof. of Math.

A.M., Ph.D., Univ. St. of N. Y., '77; L. H. D., Columbia, '90; LL.D., Union, '94; Tutor, Columbia, '90; Act. Prof., '93; Prof., '95.

*Analytical Geom. iii, 30.

*Diff. and Integ. Calculus. iii, 30.

THOMAS SCOTT FISKE, Prof. of Math.

A.B., Columbia, '85, A.M., '86, and Ph.D., '88; Fel. in Math., '85; Tutor, '88; Instr., '91; Adj. Prof., '94.

Gen. Theory of Functions. iii, 16, O.-F.
 Elliptic Functions. iii, 14, F.-Jun.
 Calculus (adv). iii, 16, O.-F.
 Differential Equations. iii, 14, F.-Jun.

FRANK N. COLE, Prof. of Math.

Ph.D., Harv., '86; Lect. Math., Harv., '87-8;
 Instr. Math., Mich., '88-9; Asst. Prof., '89-
 '95.
 Theory of Substitutions. iii, 30.
 Groups of Linear Transformations, with
 Applications to Equations of the
 Fifth Degree. iii, 30.

JAMES MACLAY, Instr. in Math.

C.E., Columbia, '88; Asst. in Math., same,
 '88-91; Tutor, '91-6.
 Analytical Theory of Curves of Double
 Curvature and Curved Surfaces. iii,
 30.

J. BRACE CHITTENDEN, Tutor in Math.

Shattuck Scholar, Harv., '90-1; Kirkland
 Fel., '92-3; Ph.D., Königsberg, '93; Parker
 Fel., Harv., '93-4; Instr. Math., Princeton,
 '94-5.
 Theory of Invariants. iii, 16, O.-F.
 Higher Plane Curves. iii, 14, F.-Jun.

CORNELL.

16 Graduate Students, 1896-7.

Several thousand vols. on pure math., math. physics and astron., besides the most important math. journals. Coll. of math. models. Fel. \$500 and 2 grad. Schols. \$300 assigned to Dept. of Math. and Astron. Dept. Sem. meets weekly to study some specified math. theory of recent devel. and to hear reports on current journals and on the results of special investigation. Reading directed in Non-Euclidean Geom., Theory of Probabilities, Math. Theories of Elasticity, Fluid Motion, Electricity and Magnetism.

N. B.—Any course not desired at begin. of year by at least two students, properly prepared, may not be given.

LUCIEN A. WAIT, Prof. of Math.

A.B., Harv., '70; Asst. Prof. of Math., Cor-
 nell, '70-7; Assoc. Prof., '77-91.

*Adv. Analyt. Geom. Lines of First
 and Second Orders. iii, 32.
 *Adv. Analyt. Geom. Surfaces of First
 and Second Orders. ii, 32.
 *Diff. Calculus (adv). iii, 32.
 *Integ. Calculus (adv). ii, 32.

GEORGE W. JONES, Prof. of Math.

A.B., Yale, '59, and A.M., '62; Prof. Math.,
 Iowa State Agri. Col., '68-73; Asst. Prof.
 Math., Cornell, '77-93; Assoc. Prof., '93-5.

*Higher Algebra and Trig. ii, 32.
 *Problems in Geom., Algebra and Trig.
 ii, 32.

JAMES McMAHON, Asst. Prof. of Math.

A.B., Dublin, '81; Gold Medal Math.; A.M.,
 '90; Instr. in Math., Cornell, '84-90.

Gen. Theory of Alg. Curves and Sur-
 faces. ii, 32.

Ternary and General Quantics. ii,
 32.

Fourier's Series and Sph. Harmonics,
 with Applica. to Physical Probs.
 ii, 32.

Math. Theory of Sound, incl. General
 Theory of Vibrating Systems. iii,
 32, for two years.

JOHN H. TANNER, Asst. Prof. of Math.

A.B., Cornell, '91.

*Mod. Synthetic Geom., incl. Projective
 Geom. iii, 32.
 Binary Quantics. ii, 32.
 Ger. Math. Readings. ii, 32.
 Theoretical Mechanics. iii, 32.

DANIEL A. MURRAY, Instr. in Math.

A.B., Dalhousie, '84; Tutor in Math., same,
 '85-7; Univ. Scholar, Johns Hopkins, '87-8;
 Fellow, '88-90, and Ph.D., '93; Assoc. Prof.
 of Math., Univ. of City of New York, '90-4.

Differential Equations. ii, 32.
 Transformation Groups. iii, 32.

Cornell—Continued.

JOHN I. HUTCHINSON, Instr. in Math.

A.B., Bates, '89; Scholar and Fellow, Clark, '90-2; Fellow, Chicago, '92-4; Docent, Chicago, '94; Ph.D., Chicago, '95.

Theory of Substitution Groups. ii, 32.

Theory of Functs. Elliptic, Abelian, and Automorphic. iii, 32.

VIRGIL SNYDER, Instr. in Math.

B.S., Iowa Agr. Col., '89; Fellow in Math., Cornell, '92-3; Ph.D., Göttingen, '94.

Theory of Functs. General Theory. iii, 32.

Theory of Numbers. Congruences, Quadratic Residues and Quadratic Forms. ii, 32.

Line Geom. (Réglée). ii, 32.

HARVARD.

23 Graduate Students, 1896-7.

[Courses marked R are open to Radcliffe Graduate Students.]

JAMES M. PIERCE, Prof. of Astron. and Math., and Dean of the Faculty of Arts and Sciences.

A.B., Harv., '53, and A.M., '56.

[Gen. Theory of Curves and Surfaces. iii, 30.]

R)Gen. Theory of Curves and Surfaces (2d course). iii, 30.

*Quaternions. iii, 30.

[Quaternions (2d course). iii, 30.]

R)The Algebra of Logic. ii, 15, O.-Ja.

R)Elliott, Algebra of Quantics. Research. — ?

WILLIAM E. BYERLY, Prof. of Math.

A.B., Harv., '71, and Ph.D., '73; Asst. Prof. Math., Cornell; Asst. Prof. Math., Harv.

*Modern Methods in Geom. Determinants. iii, 30.

R)Probs. in Mechanics of Rigid Bodies. ii, 30.

*[Analyt. Mechanics. iii, 30.]

R)Picard, *Traité d'Analyse*, Vol. I. Research. — ?

PROFS. BYERLY and B. O. PIERCE.

R)Trig. Series, Intro. to Spherical Harmonics, Potential Function. iii, 30.

BENJAMIN O. PIERCE, Prof. of Math. and Nat. Philos.

A.B., Harv., '76; Ph.D., Leipzig, '79.

R)Hydrostatics, Hydrokinematics, Force Functions and Velocity-Potential Functions and Uses. ii-iii, 30.

R)Methods in Math. Physics. Research. — ?

WILLIAM F. OSGOOD, Asst. Prof. of Math.

A.B., Harv., '86, and A.M., '87; Ph.D., Erlangen, '90.

*Diff. and Integr. Calculus (2d course). iii, 30.

*Infinite Series and Products. iii, 15, O.-Ja.

R)Theory of Functions (2d course). iii, 15, F.-Jun.

R)Elliptic Modular Functions. Research. — ?

MAXIME BOCHER, Asst. Prof. of Math.

A.B., Harv., '88; Ph.D., Göttingen, '91; Instr. in Math., Harv., '91-4.

*Higher Algebra. iii, 15, F.-Jun.

*Theory of Equations. Invariants. iii, 15, O.-Ja.

R)Theory of Functions (intro.). iii, 30.

R)Functions def. by Linear Diff. Equations. iii, 30.

R)Topics in Linear Diff. Equations. Research. — ?

ASAPH HALL, Prof. of Math. (U. S. Navy.)

A.M. (hon.), Harv., '79; Ph.D. (hon.), Hamilton, '78; LL.D., Yale, '79, and Harv., '86; Director U. S. Nav. Observ.

R) Theory of Planetary Motions. iii, 30.
R) Plasticity of the Earth. Research.

JOHNS HOPKINS.

22 Graduate Students, 1896-7.

THOMAS CRAIG, Prof. of Pure Math.

Ph.D., Johns Hopkins, '79.

Partial Diff. Equations of First and Second Orders. ii, 30.
Theory of Surfaces and Lines Traced on Surfaces. iii, 30.
Theory of Functions (adv.). iii, 30.
Seminary. i, 30.

A. S. CHESSIN, Assoc. Prof. of Math.

A.M., Imperial Col. St. Petersburg, '79; Ph.D., Univ. of St. Petersburg, '84.
El. Theory of Functions. ii, 30.
Elliptic Functions. ii, 30.
Projective Geom. ii, 15, O.-F.
Calculus of Variations. ii, 15, F.-My.

A. COHEN, Instr. in Math.

Ph.D., Johns Hopkins, '94.
Theory of Invariants. iii, 15, O.-F.
Theory of Numbers. iii, 15, F.-My.

LELAND STANFORD, JR.

3 Graduate Students, 1896-7.

ROBERT E. ALLARDICE, Prof. of Math.

A.M., Edinburgh, '82; Gray Scholar in Math., same, '82; Baxter Scholar in Math., '82-3; Drummond Scholar in Math., '83-4; Asst. Prof. Math., same, '83-'92.

Theory of Functions. ii, 32.
Geom. of Three Dimensions. iii, 32.

CHARLES L. LITTLE, Prof. of Math.

A.B., Nebraska, '79; Ph.D., Yale, '85; Instr. in Math. and Civil Eng., Nebraska, '80-4; Assoc. Prof. of Civil Eng., '85-'90; Prof. of Civil Eng., '90-3.

*Differential Equations. iii, 32.

RUFUS L. GREEN, Prof. of Math.

B.S., Indiana, '85, and A.M., '90; Instr. in Math., '85-6; Prof. of Pure Math., '87-'93.

Modern Analytic Geom. iii, 32.
Determinants and Theory of Equations. ii, 32.

MICHIGAN.

4 Graduate Students, 1896-7.

WOOSTER W. BEMAN, Prof. of Math.

A.B., Mich., '70, and A.M., '73.
*Solid Analytic Geom. ii, 17, O.-F.
*Quaternions. iii, 17, F.-Jun.
*Teachers' Seminary. ii, 34.
Solid Analytic Geom. ii, 17, F.-Jun.
Diff. Equations. iii, 17, O.-F.; ii, 17, F.-Jun.
Math. Reading. iii, 34.

ALEXANDER ZIWET, JR., Prof. of Math.

C.E., Karlsruhe (Ger.), '80.
Advanced Mechanics. ii, 17, O.-F.; iii, 17, F.-Jun.

JOSEPH L. MARKLEY, Asst. Prof. of Math.

A.B., Haverford; Ph.D., Harvard.
Theory of Functions. iii, 17, O.-F.; ii, 17, F.-Jun.
*Mod. Higher Algebra. iii, 17, F.-Jun.

JAMES W. GLOVER, Instr. in Math.

B.L., Michigan, '92; A.B., Harv., '93, A.M., '94, and Ph.D., '95; Morgan Fel. in Math., Harv., '92-4.

*Projective Geom. iii, 34.
Theory of Complex Numbers. iii, 34.

MINNESOTA.

6 Graduate Students, 1896-7.

JOHN F. DOWNEY, Prof. of Math.

B.S., Hilldale, '70, M.S., '73, and A.M., '77; C.E., Penn. State Col., '88; Prof. Math. and Astron., Penn. State Col., '74-'80.

Determinants. ii, 24.

Diff. Calculus (adv). ii, 24.

Integ. Calculus (adv). ii, 24.

ARTHUR E. HAYNES, Prof. of Math. in the Col. of Engineering.

B.S., Hilldale, '75, and M.S., '77; Prof. Math., same, '77-'90; Prof. Math., Mich. Mining School, '90-3.

Hist. of Math. ii, 12.

HENRY T. EDDY [see 14].

Theory of Functions. ii, 24.

Hyperbolic and Elliptic Functions. ii, 24.

WILLIAM H. KIRCHNER, Asst. Prof. of Drawing.

B.S., Worcester Poly. Inst., '87; Instr. in Math. and Drawing, Rose Poly. Inst., '88-'90; Junior Prof. of Drawing, same, '90-3.

Spherical Projections. ii, 24.

C. H. HINTON, Asst. Prof. of Math.

A.M., Oxford (Eng.).

Coordinate Geom. (adv). ii, 24.

Quaternions. ii, 24.

Differential Equations. ii, 36.

NEW YORK.

2 Graduate Students, 1896-7.

POMEROY LADUE, Prof. of Math.

B.S., Michigan, '90; Instr. in Math., Mich., '92-3.

Solid Analytic Geom. ii, 30.

Diff. Equations. ii, 30.

Adv. Diff. and Integral Calculus, or

El. Theory of Functions. ii, 30.

NORTHWESTERN.

2 Graduate Students, 1896-7.

HENRY S. WHITE, Prof. of Pure Math.

A.B., Wesleyan, '82; Ph.D., Göttingen, '90.

Substitution Groups. ii, 30.

El. Theory of Invariants. ii, 30.

THOMAS F. HOLGATE, Prof. of Applied Math.

A.B., Victoria Col., Toronto, '84, and A.M., '89; Fел. Clark, '90-3, and Ph.D., '93.

Theory of Numbers, Quadratic Forms. ii, 30.

Functions of a Complex Variable. ii, 30.

PENNSYLVANIA.

8 Graduate Students, 1896-7.

1 Scholarship of \$100; 1 Fellowship of \$600.

EDWIN S. CRAWLEY, Asst. Prof. of Math.

B.S., Univ. of Pa., '82; Instr. Civ. Eng., '82-3; Instr. Math., '85-9; Ph.D., '92.

Theory of Numbers. ii, 30.

Sem. Theory of Numbers. ii, fort., 30.

Hist. of Math. i, 30.

Determinants. ii, 15, O.-F.

Plane Analyt. Geom. ii, 15, F.-My. [Higher Plane Curves. ii, 30.]

GEORGE E. FISHER, Asst. Prof. of Math.

Ph.D., Univ. of Pa., '95.

Invariants and Covariants (2 yr. course). ii, 30.

Theory of Functions of Real Variable. ii, 30.

Theory of Functions of Complex Variable (2 yr. course). Pt. II. ii, 30.

Linear Diff. Equations. ii, 15, F.-My.

ISAAC J. SCHWATT, Instr. in Math.

Ph.D., Univ. of Pa., '93.

Isogonal-Conjugate Curves. ii, 30.

Diff. Equations. ii, 30.

Definite Integrals. ii, 30.
 Elliptic Functions of Real Variable. ii, 15, O.-F.
 Abelian Functions. ii, 15, F.-My.
 Application of Theory of Functions of Complex Variable. i, 30.

GEORGE H. HALLETT, Instr. in Math.
 A.B., Univ. of Pa., '93; Fel. in Phys., same, '93-4; A.M., same, '94; Ph.D., same, '96; Instr. Math., same, '94-7.
 [Geom. of Three Dimensions. ii, 30.]
 Theory of Substitutions. ii, 30.

ASST. PROF. FISHER and DR. SCHWATT.
 Sem. Theory of Functions. ii, fort., 30.

PRINCETON.

7 Graduate Students, 1896-7.

H. B. FINE, Prof. of Math.
 A.B., Princeton, '80; Ph.D., Leipzig, '85; Tutor, Asst. Prof., and Prof. of Math., Princeton.
 *Theory of Functions (el). ii, 18, S.-Ja.
 *Elliptic Functions. ii, 18, F.-My.
 Theory of Numbers and Higher Algebra. ii, 36.
 Linear and Partial Diff. Equations. ii, 36.

H. D. THOMPSON, Prof. of Math.
 A.B., Princeton, '85, and D.Sc., '89; Ph.D., Göttingen, '92.
 Solid Geom. ii, 18, S.-Ja.
 Higher Metrical Geom. ii, 18, F.-My.
 *Analyt. Geom. of Three Dimensions. ii, 36.
 *[Higher Plane Curves. ii, 36.]

J. M. BROOKS, Instr. in Math.
 A.B., Princeton, '89, and A.M., '91.
 Diff. Equations and Lie's Transformation Theory. ii, 36.

RADCLIFFE.

o Graduate Student, 1896-7.

Mathematical Conference.

[See Harvard Courses marked R.]

W. F. OSGOOD.

*Diff. and Integ. Calculus (adv). iii, 30.

*Infinite Series and Products. i, 30.

MAXIME BOCHER.

*Theory of Equations. Invariants. iii, 15, O.-Ja.

*[Mod. Methods in Geom. Determinants. iii, 30.]

VANDERBILT.

5 Graduate Students, 1896-7.

W.M. J. VAUGHN, Prof. of Math.

A.B., Ala., '57, and A.M., '60; Tutor Math., same, '57-60; Prof. Math., '63-5; Prof. Physics and Astron., '71-3; LL.D., Univ. Miss., '83.

Theory of Equations. iii, 16, O.-Ja.
 Quantics. iii, 8, F.-Mar.
 Mod. Anal. Geom. iii, 8, Ap.-My.
 Theory of Numbers. iii, 16, O.-Ja.
 Theory of Complex Functions. iii, 16, F.-My.

WELLESLEY.

3 Graduate Students, 1896-7.

ELLEN HAYES, Prof. of Applied Math.

A.B., Oberlin, '78.

*Thermodynamics. iii, 17.

*Theoretical Mechanics (adv). iii, 17.

*Geodynamics. iii, 17.

*Principles of Inference. i, 35.

ELLEN L. BURRELL, Acting Prof. of Pure Math.

A.B., Wellesley, '80.

*Projective Geom. iii, 35.

*Diff. and Integ. Calculus. Hist. of Math. iii, 35.

Wellesley—Continued.

EVA CHANDLER, Assoc. Prof. of Math.
A.B., Mich., '78.
*Theory of Equations, with Determinants. iii, 17, S.—Ja.
*Solid Analyt. Geom. iii, 17, F.—Jun.
*Diff. Equations. iii, 35.

WESTERN RESERVE.

1 Graduate Student, 1896-7.

C. J. SMITH, Prof. of Math.
A.M., West. Res. Col., '73; Prof. of Math., Nat. Philos. and Astron., same, '80-2; Prof. of Math., Adelbert, '82.
*Analytic Geom. iii, 16, S.—Ja.
*Theory of Equations. iii, 17, F.—Jun.
*Diff. and Integ. Calculus. iii, 36.

A. H. PALMIÉ, Prof. of Math.
Ph.B., Cornell, '90; Fellow in Math., same, '90-1; Instr. in Math. and German, Col. for Teachers, N. Y., '91-2; Instr. in Math., Col. for Women, W. R. U., '92.
Higher Plane Curves. iii, 16, S.—Ja.
Theory of Functions. iii, 17, F.—Jun.
Diff. Equations. iii, 16, S.—Ja.
*Projective Geom. iii, 17, F.—Jun.
*Quaternions. iii, 17, F.—Jun.
Theory of Substitutions. iii, 16, S.—Ja.

WISCONSIN.

4 Graduate Students, 1896-7.

CHARLES A. VAN VELZER, Prof. of Math.
B.S., Cornell, '76; Instr. in Math., same, '76-7; Fel. in Math., Johns Hopkins, '78-82; Ph.D., same; Instr. in Math., Wisconsin, '82; Asst. Prof., '83-5.
*Diff. Equations. iii, 36.
*Analyt. Geom. of Two Dimensions. iii, 36.
*Analyt. Geom. of Three Dimensions. iii, 36.
*Modern Algebra. ii, 36.
Theory of Functions. iii, 36.
[Theory of Groups. ii, 36.]

CHARLES S. SLICHTER, Prof. of Applied Math.

M.S., Northwestern, '85; Instr. in Math., Wisconsin, '86-9; Asst. Prof., '89-'92.

*Theoretical Mechanics. iii, 36.
*Potential Theory. ii, 36.
[Partial Diff. Equations of Math. Physics. ii, 36.]
Theoretical Hydrodynamics. ii, 36.
*Theory of Elasticity. ii, 36.

E. B. SKINNER, Asst. Prof. of Math.

A.B., Ohio Univ., '88.
[Quaternions (intro). ii, 36.]
*Theory of Equations. ii, 36.

L. WAYLAND DOWLING, Instr. in Math.
Scholar and Fellow, Clark, '92-5; Ph.D., same, '96.

*Diff. and Integral Calculus (adv). ii, 18, S.—F.
*Theory of Singly Periodic Functions. ii, 18, F.—Jun.
Elliptic Functions. ii, 36.

YALE.

4 Graduate Students, 1896-7.

Math. Club holds fortnightly meetings. Hillhouse Math. Coll., 3,000 vols.

J. E. CLARK, Prof. of Math.

A.B., Mich., '56; A.M., Yale, and Mich., '75; Prof. of Math., Antioch.
Determinants and Diff. Equations. ii, 32.

J. W. GIBBS, Prof. of Math. Physics.

A.B., Yale, '58; Ph.D., same, '63; LL.D., Williams, '93.
Vector Analysis. ii, 12, O.—D.
Vector Analysis (adv). ii, 20, Ja.—Jun.
[Miscellaneous Applica. of Vect. Anal. i, 32.]
[Electro-Magnetic Theory of Light. ii, 32.]
[Dynamics and Thermodynamics. i, 32.]

Multiple Algebra. i, 32.
 Thermodynamics and Properties of Matter. ii, 32.
 Electricity and Magnetism. i, 32.
 Multiple Algebra. i, 32.

J. P. PIERPONT, Asst. Prof. of Math.
 Ph.D., Vienna, '94.
 Theory of Functions. ii, 32.
 Adv. Calculus. iii, 32.
 Linear Diff. Equations. ii, 32.

A. W. PHILLIPS, Prof. of Math., and Dean of Graduate School.
 Ph.B., Yale, '73; A.M., Trinity, '75, and Ph.D., '77.
 *Calculus. ii, 32.

C. B. RICHARDS, Prof. of Mech. Eng.
 A.M., Yale, '84.
 Applied Mechanics. — ?
 Thermodynamics. — ?
 Machine Design. — ?

A. J. DUBOIS, Prof. of Civ. Eng.
 Ph.B., Yale, '69, C.E., '70, and Ph.D., '73; Prof. of Eng., Lehigh.
 Mechanics Applied to Eng. — ?
 Construction and Design in Civ. Eng. — ?

S. E. BARNEY, Asst. Prof. of Civ. Eng.
 Ph.B., Yale, '79, and C.E., '85.
 *Railway Surveying. 3 wks. in Sept.
 Geodesy and Pract. Astron. — ? F.-Jun.
 Design and Construct. of Sewers and Sewage Disposal. — ? O.-D.

WM. BEEBE [see 13].
 *Surveying. iii, 16, F.-Jun.

P. F. SMITH, Asst. Prof. of Math.
 Ph.B., Yale, '88, and Ph.D., '91.
 Plane Analyt. Geom. (adv.). ii, 32.
 Higher Geom. ii, 32.

W. M. STRONG, Tutor in Math.
 A.B., Yale, '93; A.M., Cornell, '94.

JACOB WESTLUND, Instr. in Math.
 A.B., College of Orebro, Sweden, '85.

W. M. STRONG and J. WESTLUND.
 *Anal. Geom. iii, 32.

G. P. STARKWEATHER, Instr. in Applied Mechanics.
 M.E., Yale, '94.
 Mechanics. ii, 32.

13. ASTRONOMY.

BARNARD.

o Graduate Students, 1896-7.

JOHN K. REES.

Spherical and Practical Astron. ii, and obs., 30. (With Dr. Davis.)
 Adv. Spher. and Pract. Astron. ii, and obs., 2 years. (With Prof. Jacoby.)

HAROLD JACOBY.

Theoret. Astron. i, and computa., 2 yrs.
 Theory and Methods of Reduction of Photographic Star Plates. i, and practical work, 2 yrs.

BROWN.

a Graduate Students, 1896-7.

WINSLOW UPTON, Prof. of Astron. and Dir. of Ladd Observatory.

A.B., Brown, '75; A.M., Cincinnati, '77; Asst. Harvard Observ., '77-9; Asst. Eng., U. S. Lake Survey, '79-80; Computer and Jun. Prof. of Meteorol., U. S. Sig. Office, '81-3.

*Practical Astron. (adv.). iii, 33.
 Special Research. — ?

CALIFORNIA.

1 Graduate Student, 1896-7.

The Lick Observatory, with its facilities for adv. astron. work, is a dept. of the Univ. A limited number of graduate and special students are admitted there. The following courses are given at Berkeley, where there is a students' Observatory.

ARMIN O. LEUSCHNER, Asst. Prof. of Astron. and Geodesy.

A.B., Michigan.

Theoretical Astron. (adv). ii, 32.

*History of Astron. iii, 16, Au.-D.

*Theoretical Astron. iv, 32.

*Least Squares. ii, 16, Au.-D.

*[Mechanical Quadratures. iii, 16, Ja.-My.]

*[Interpolation and Use of Tables. iii, 16, Ja.-My.]

Practical Astron. (adv). i, 32.

CHICAGO.

21 Graduate Students, 1896-7; and 8 in Summer Quarter, '96.

A limited number of qualified graduate students are admitted to the Yerkes Obs. at Williams Bay, Wis. The equipment includes a 40-inch refractor, with solar and stellar spectroscopes and other attachments, a 12-inch refractor with photographic and visual objectives, 24-inch heliostat, two 24-inch reflectors, concave grating spectroscope, spectroheliograph, etc. The courses in theoretical and practical astron. are given at the Univ. in Chicago, where there is a small students' Obs. 3 Fels., 1 Schol.

Research work at Yerkes Obs., to be conducted by the following instructors:

SHERBURNE W. BURNHAM, Prof. of Pract. Astron.

A.M., Yale, '78; Obs. at Dearborn Obs., '77-'81; Obs. at Washburn Obs., '81-2; Astron., Lick Obs., '88-'92.

EDWARD E. BARNARD, Prof. of Pract. Astron.

A.M., (hon.), Univ. of Pacific, '89; Sc.D., Vanderbilt, '93; in charge Vanderbilt Obs., '83-7; Astron., Lick Obs., '87-'95.

F. L. O. WADSWORTH, Asst. Prof. of Astro-Physics.

E.M., Univ. of Ohio, '88; S.B., and M.E., '89; Asst. in Physics, same, '89; Fel. in Physics, Clark, '89-90; Asst. in Physics, same, '90-1; Senior Asst., Washington Astro-Physical Obs., '93-4.

GEO. E. HALE, Assoc. Prof. of Astrophysics and Dir. of the Yerkes Obs.

S.B., Mass. Inst. Tech., '90; Dir. Kenwood Astro-physical Obs., '90; Prof. of Astrophysics, Beloit, '91; Lect. in Astro-physics, Northwestern, '91; Lect., Beloit, '93; Sc.D., West. Univ. of Pa., '97.

Solar Physics. The Photosphere. Use of Photoheliograph. xii, 12, O.-D. Spectroscopic Obs. of Sun Spots, Ja.-Mar. The Chromosphere, Prominences and Faculae, Ap.-Jun.

Stellar Spectroscopy. xii, 12, O.-D. Astrophysical Research.

Work at the University to be conducted by the following instructors:

KURT LAVES, Assoc. in Astronomy.

Ph.D., Berlin, '61; Asst., Royal Observatory, Berlin, '93.

Theory of the Determination of an Elliptic Orbit from three complete obs., with a numerical example. iv, 12, Jul.-S.

Theory of Absolute Perturbations. iv, 12, Jul.-S.

Theory of the Attraction and Figures of the Heavenly Bodies. iv, 12, O.-D.

Theory of Special Perturbations. iv, 12, O.-D.

Adv. Analyt. Mechanics. iv, 12, Ja.-Mar.

Spherical and Practical Astron. iv, 12, Ja.-Mar., also Ap.-Jun.

Theory of a Rotating Body. iv, 12, Ap.-Jun.

FOREST RAY MOULTON, Asst. in Astron.

A.B., Albion Col., '94; Instr. in Astron. and Asst. in the Obs., same, '92-4.

Theory of Double Star Orbits. iv, 6, Jul.-Au.

*Hist. of Astron. iv, 6 Au.-S.

- *Gen. Astron. v, 12, O.-D.
- Analyt. Mechanics. iv, 12, O.-D.
- *Physical Astron. iv, 12, Ja.-Mar.
- *Hist. of Physical Sci. v, 12, Ja.-Mar.
- *Theory of Parabolic Orbits. iv, 12, Ap.-Jun.
- Secular Variations, Gauss Method. iv, 12, Ap.-Jun.

COLUMBIA.

6 Graduate Students, 1896-7.

Astron. Obs. contains a 46-in. transit; combined transit and zenith instrument; an equatorially mounted refractor of 5-in. apert., with spectroscope; a diffraction spectroscope with grating; an equat. refracting telescope of 13-in. apert. with correcting lens for photographic work; sidereal and mean-time clocks; measuring and photographic machines.

JOHN K. REES, Prof. of Astron. and Director of Obs.

A.M., E.M., Ph.D., Columbia; Asst. in Math., Columbia, '73-6; Prof. of Astron., Wash. Univ., '76-'82; Prof. Pract. Astron. and Geodesy, Columbia, '81-'92.

*Spher. and Pract. Astron. ii, and obs., 30. (With Dr. Davis.)

*Geodesy. iii, 1½ yrs. (With Prof. Jacoby and Dr. Davis.)

Spher. and Pract. Astron. (adv.). ii, and obs., 2 yrs. (With Prof. Jacoby.)

HAROLD JACOBY, Adj. Prof. of Astron.

A.B. and Ph.D., Columbia; Asst. Astron., U. S. Eclipse Exped. to W. Africa, '89-'90.

Theoretical Astron. i, and computations, 2 yrs.

Reduction of Photographic Star Plates. i, and practical work, 2 yrs.

HERMAN S. DAVIS, Tutor in Astronomy.

A.B., and A.M., Princeton; Ph.D., Columbia; Asst. U. S. Eclipse Exped. to W. Africa, '89-'90; Fellow in Astronomy, Columbia, '93-5.

Stellar parallax, declinations and proper motions of 56 stars, etc. ii, 30.

Spherical and Practical Astron. ii, and obs., 30.

CORNELL.

2 Graduate Students, 1896-7.

¹ Fel. \$500 and ² Grad. Schol. \$300 assigned to Dept. Math. and Astron.

ESTEVAN A. FUERTES, Director of Col. of Civil Eng. and Prof. of Civil Eng.

Director N. Y. State Weather Bureau.

*Spherical Astron. Observations. ii, 12.

D. A. MURRAY [see 12].

*Descriptive Astron. ii, 32.

*Physical and Math. Astron. ii, 32.

HARVARD.

o Graduate Students, 1896-7.

Astronom. Obs. founded for scientific research, equipped with instruments of the first class, a lib. of 20,000 books and pamphlets; has fund for maintenance, increase and pub. In the Henry Draper memorial dept. an extensive study of spectra and other phys. props. of stars is carried on. Boyden fund sustains observations at great elevation. Photogr. study of stars especially provided for. Facilities freely offered to astronomers; also sometimes to special students in astron., who should apply to Prof. E. C. Pickering, Director.

ROBERT W. WILLSON, Instr. in Astron.

A.B. Harv., '73; Ph.D., Würzburg, '86.

*Practical Astron. Use of Instruments. iii, 30.

JOHNS HOPKINS.

16 Graduate Students, 1896-7.

The equipment consists of an equatorial telescope of 9½ inches aperture, a meridian circle of 3 in. aperture with circles 2 ft. in diam. reading to seconds, a small meridian transit instrument, and several others.

C. L. POOR, Assoc. Prof. of Astron.

Ph.D., Johns Hopkins, '92.

Theory and Use of Astron. Instruments. ii, 30.

Construction of Planetary Tables. iii 15, F.-My.

Johns Hopkins — *Continued.*

Theoret. and Pract. Astron. ii, 30.
 Astron. Sem. in conjunction with Physi-
 cal Sem.
 Pract. work with instruments. Daily.

A. S. CHESSIN [see 12].

Celestial Mechanics. iii, 15, O.-Ja.

MICHIGAN.

2 Graduate Students, 1896-7.

"Detroit" Observ. provided with Fitz 13-in.
 refract. telescope, meridian circle, sid.
 clock. Special obs. for instruction.

ASAPH HALL, JR., Prof. of Astron. and
 Dir. of Obs.

Ph.B., Yale, '88, and Ph.D., '89; Asst. Naval
 Obs., '82-5; Asst. Astron., Yale, '85-9; Asst.
 Astron., Naval Obs., '89-92.

Computation of Orbits, Special Per-
 turbations, and Correction of Orbits.
 v, 34.

Math. Theory of Planetary Motions.
 iii, 17, O.-F.
 Use of Instruments. — ? 34.

SIDNEY D. TOWNLEY, Instr. in Astron.
 B.S., Wisconsin, '90, and M.S., '92.

*Least Squares and Empir. Curves. ii,
 17, O.-F.

Spherical Astron. iii, 34.

MINNESOTA.

6 Graduate Students, 1896-7.

FRANCIS P. LEAVENWORTH, Asst. Prof.
 of Astron. and Dir. of Obs.

A.B., Indiana, '80, and A.M., '87; Asst. in
 Obs., Univ. of Va., '88; Dir. Obs., Haver-
 ford, '88-93.

Practical Astronomy. iv, 36.
 Computation of Orbits. iv, 36.
 Astro-Photography. iv, 36.
 Astro-Physics. iv, 36.
 *Practical Astronomy. iv, 36.

NORTHWESTERN.

1 Graduate Student, 1896-7.

GEORGE W. HOUGH, Prof. of Astron.

A.B., Union, '56, A.M., '61, and LL.D., '91;
 Asst. Astron., Cincin. Obs., '59; Astron.-
 Dudley Obs., Albany, '60-3; Lect. on Astron.,
 Albany Fem. Col., '62-6; Director Dudley
 Obs., '63-'74; Prof. Astron., Chicago, and
 Dir. of the Dearborn Obs., '79-'87.

Practical Astronomy. viii, 36.

PENNSYLVANIA.

4 Graduate Students, 1896-7.

Flower Obs. consists of an equatorial and
 meridian building, and the residence of the
 Director containing the Astron. Lib. and
 computa. rooms for orig. investigators. The
 princ. instruments are an equatorial, 18-in.
 aperture with spectroscope, a meridian
 circle and zenith telescope, each of 4-in.
 aperture, and a 3-in. of universal transit.
 Plan of Grad. work includes systematic
 obs. of comets and small planets, investiga-
 tions of variations of latitude, and spectro-
 scopy. 1 Fellowship of \$600.

CHARLES L. DOOLITTLE, Prof. of Math.
 and Astron., and Dir. of Obs.

C.E., Univ. of Mich., '74; Prof. of Math. and
 Astron., Lehigh, '75-'95.

Meth. of Least Squares. ii, 15, O.-F.
 Reduction of Stellar Coördinates. ii,
 15, F.-My.

Hist. of Astron. i, 30.

ERIC DOOLITTLE, Instr. in Astron.

C.E., Lehigh, '91; Instr. Math. and Astron.,
 Univ. of Ia., '92.

Pract. Astron. iii, 30.
 Theoret. Astron. iv, 30.
 Astron. Sem. i, 30.

PRINCETON.

2 Graduate Students, 1896-7.

Halsted Obs. appropriated to scientific work,
 esp. in Astro-physics. Equatorial, 23-in.
 aperture, made by Clark. Highest power
 spectroscope fitted for visual and photo-
 graphic work. Obs. of instruction, devoted
 to use of students, contains 9½-in. Clark
 equatorial, besides full complement of other
 instruments. 1 Fel. \$600 open to students
 of this dept.

C. A. YOUNG, Prof. of Astron.

A.B., Dartmouth, '53; Ph.D., U. of Pa., '70; Ph.D., Hamilton, '70; LL.D., Wesleyan, '76; Prof. of Math. and Astron., W. Reserve, '57-'66; Prof. Nat. Philos. and Astron., Dartmouth, '66-'77.

Theoret. Astron. i, 36.

TAYLOR REED, Asst. Prof. of Astron.

A.B., Princeton, '86, and A.M., '87.
Pract. Astron. ii, 36.

RADCLIFFE.

1 Graduate Student, 1896-7.

The officers of the Obs. desire to encourage individual work, and to that end will advise students in their subsequent investigations and secure the publication of any valuable results. Instruction is under direction of Prof. Pickering.

ARTHUR SEARLE.

*Descriptive Astronomy. iii, 30.

J. R. EDMANDS.

*Preparatory Pract. Astron. iii, 30.
*Instruments, Measurements and Methods of Precision. i, 30.

VANDERBILT.

5 Graduate Students, 1896-7.

WM. J. VAUGHN [see 12].

Practice and Theory of Astron. iii, 32.
Theory, Instruments, Cel. Mech., Perturbations. iii, 32.

WELLESLEY.

o Graduate Students, 1896-7.

ELLEN HAYES [see 12].

*Theoretical Astronomy. Determination of Orbits. iii, 35.

WISCONSIN.

4 Graduate Students, 1896-7.

Graduate Students and others desiring to pursue adv. astron. studies are received in Washburn Obs. as assts. and take part in regular observations with equatorial telescopes or meridian circle. Facilities for original work are afforded to such students, and valuable results will be printed in publications of the Obs. Hours and amt. of work determined by conf. bet. instr. and students.

GEORGE C. COMSTOCK, Prof. of Astron. and Director of Washburn Obs.

Ph.B., Mich., '77; Asst. in Ann Arbor Obs., '77-8; Asst. in Washburn Obs., '79-'83; Prof. Math. and Astron., Ohio State Univ., '85-7; Director Washburn Obs., '87.

*Gen. Astron. — ?

*Astrophysics. — ?

*Obs. Work and Methods. — ?

*Theoretical Astronomy. — ?

YALE.

1 Graduate Student, 1896-7.

WM. BEEBE, Asst. Prof. of Math. and Astron.

A.B., Yale, '73.

*Descriptive Astron. iii, 16, O.-F.

*Practical Astron. ii, 32.

Computation of Orbits. ii, 32.

S. E. BARNEY [see 12].

Geodesy and Pract. Astron. — ?

14. PHYSICS.

[See also 12 and 13.]

BARNARD.

1 Graduate Student, 1896-7.

OGDEN N. ROOD.Light. iii, and lab., 16, O.-F.
Heat. iii, and lab., 14, F.-Jun.**ROBERT S. WOODWARD.**Theoret. Mechan. (adv). ii, 30.
Theory of the Potential Function. ii, 30.
Geodynamics. ii, 30.
Math. Theory of Electricity. ii, 30.**WILLIAM HALLOCK.**

Undulatory Theory of Light. ii, 14, F.-Jun.

MICHAEL I. PUPIN.Maxwell's Theory of Electricity and Magnetism. ii, 30.
Theory of Bessel's Functions and Spherical Harmonics. i, 30.
Electromagnetic Theory of Light. iii, 16, O.-F.
Adv. Thermodynamics. ii, 30.
Adv. Theoretical Electrical Engineering. iii, 14, F.-Jun.
Theory of Oscillations. ii, 30.**J. C. PFISTER.***Theoretical Mechanics (adv). ii, 30.
*Hydromechanics and Thermodynamics. ii, 30.**BROWN.**

7 Graduate Students, 1896-7.

CARL BARUS, Prof. of Physics.

Ph.D., Würzburg, '79; Asst. to Prof. Kohlrausch, '79-'80; Physicist, U. S. Geol. Sur-

vey, '80-'92; Prof. of Meteorol., U. S. Weather Bureau, '92-3; Physicist, Smithsonian Inst., '93-5.

*Lab. Course (adv). iii, 33.

*[Harmonic Anal. iii, 21, Ja.-Jun.]

*Advanced Physics. iii, 33.

Behavior of Matter through Long Ranges of Temperature.

Behavior of Matter through Long Ranges of High Pressure.

Absolute Viscosity of Solids as Compared with Liquids and Gases.

Physical Properties of Iron Carburets.

[Time in last four courses arranged according to needs of students. All the work is original research.]

ALBERT DE F. PALMER, Assoc. Prof. of Physics.

B.P., Brown, '91, and Ph.D., '95.

*[Dynamics. iii, 12, S.-D.]

*[Thermodynamics. iii, 11, Ja.-Mar.]

*[Hydrodynamics. iii, 10, Ap.-Jun.]

*Lab. Course (adv). (With Prof. Barus.)

Electricity and Magnetism. iii, 33.

BRYN MAWR.

4 Graduate Students, 1896-7.

1 Fellowship \$525.

ARTHUR S. MACKENZIE, Assoc. Prof. of Physics.

A.B., Dalhousie, '85; Tutor in Math., '87-9; Fel., Johns Hopkins, '90-1; Ph.D., same, '94

Physical Optics. iii, 30.

*Spectrum Analysis and Polarization. ii, 15, O.-F.

*Sound in Relation to Music. ii, 15, F.-Jun.

EDGAR BUCKINGHAM, Assoc. in Physics and Phys. Chem.

A.B., Harv., '87; Asst. in Physics, '88-9; Asst. in Physics, Univ. of Strasburg, '88-90; Asst. in Physics, Harv., '92-2; Tyndal Schol., Harv., '92-3; Ph.D., Leipzig, '93.

Thermodynamics. ii, 15, F.-Jun.

*Thermodynamics, Thermochemistry, Theory of Solutions. ii, 15, O.-F.

*Guldberg and Waage's Mass Law; Reaction Velocities; Gibbs' Phase Rule and Chemical Equilibria, Electrochemistry. ii, 15, F.-Jun.

DRS. MACKENZIE and BUCKINGHAM.

Seminary. Monthly.

Journal Meeting. iii, monthly.

CALIFORNIA.

9 Graduate Students, 1896-7.

FREDERICK SLATE, Prof. of Physics.

B.S., Brooklyn Polytechnic.

Special Research. Lab. —?

Dynamics of Rotation. ii, 32.

Readings and Discussions. Special Topics. —?

WILLIAM J. RAYMOND, Asst. Prof. of Physics.

B.S., Univ. of Cal.

*Absolute Electr. Measurements. iii, 16, Ja.-My.

*Harmonic Motion. ii, 16, Ja.-My.

E. PERCIVAL LEWIS, Asst. Prof. of Physics.

Ph.D., Johns Hopkins.

Spectroscopy. ii, 16, Ja.-My.

CHICAGO.

19 Graduate Students, 1896-7; and 40 in Summer Quarter, '96.

Ryerson Physical Lab. and all equipments necessary for scientific research. 1 Fel.

ALBERT A. MICHELSON, Head Prof. of Physics.

Instr. in Phys. and Chem., U. S. Naval Acad., '75-9; Ph.D. (hon.), West. Reserve, '86; Prof. Phys., Clark, '89-'92.

Physical Computations. —? Jul.-Au. Exper. Physics. —? Jul.-Jun. (With Prof. Stratton.)

Physical Research. —? Jul.-Jun.

Theoretical Physics. —? O.-Mar. Spectrum Analysis, Application of Interference Methods. Velocity of Light. —? Ap.-Jun.

SAMUEL W. STRATTON, Assoc. Prof. of Physics.

S.B., Univ. of Ill., '85; Instr. in Math. and Phys. same, '85-8; Asst. Prof. of Phys., '88-'90; Prof. of Phys., '90-2; in charge Dept. Electrical Engineering, '92-2.

Physical Manipulations. —? Jul.-S., also Ap.-Jun.

Lab. Methods. —? O.-D.

CLARK.

3 Graduate Students, 1896-7.

Two Fels. \$600 each, two \$400 each; two Schols. \$600 each, two \$100 each. Lab. open daily from 8 to 6. Research by each student under the personal direction of the professor.

ARTHUR G. WEBSTER, Asst. Prof. of Physics.

A.B., Harv., '85; Instr. in Math., '85-6; Parker Fellow, '86-9; Ph.D., Berlin, '90.

[Dynamics. General Methods, Canonical Equations. Systems of Particles, Rigid Bodies. 50 lects.]

[Newtonian and Logarithmic Potential Function, Attraction of Ellipsoids. 20 lects.]

[Elasticity, Hydrodynamics, Wave Motion, Dynamical Basis of Sound and Light. 45 lects.]

[Dynamics of Cyclic and Oscillatory Systems, with Applications to Theory of Electricity, Sound and Light. 50 lects.]

[Electricity and Magnetism. 60 lects.] Optics, Physical and Geometrical. Elastic and Electromagnetic Wave Theories. 60 lects.

Clark — *Continued.*

Thermodynamics, Thermo- and Electro-Chemistry. Kinetic Theory of Gases. 45 lects.

The Partial Differential Equations of Mathematical Physics. 60 lects.

Colloquium. Discussions and Reports. Weekly.

COLUMBIA.

7 Graduate Students, 1896-7.

The dept. offers twenty additional laboratory courses. John Tyndall Fel. \$648, Barnard Fel. \$500, for research here or abroad.

OGDEN N. ROOD, Prof. of Physics.

A.B., Princeton, '52.

*Sound. ii, and lab. vi, 16, O.-F.

*Magnetism and Electricity. ii, and lab. vi, 14, F.-Jun.

*Light. iii, and lab. iv, 16, O.-F.

*Heat. iii, and lab. iv, 14, F.-Jun.

ROBERT S. WOODWARD, Prof. of Mechanics.

C. E., Mich., '72, and Ph.D., '92; Asst. Eng. U. S. Lake Survey, '72-'82; Asst. Astron. U. S. Transit Venus Com., '82-4; Astron. U. S. Geol. Survey, '84-'90; Asst. U. S. Coast Survey, '90-3; Prof. Mechanics, Columbia, '93.

Theoretical Mechanics (adv). ii, 30. Theory of the Potential Function. ii, 30.

Geodynamics. ii, 30.

Mathematical Theory of Elasticity. ii, 30.

WILLIAM HALLOCK, Adj. Prof. of Physics.

A.B., Columbia, '79; Ph.D., Würzburg, '81; Phar.D., Nat. Col. of Pharm., Wash., '92; Asst. in Lab., Würzburg, '80-2; Physicist U. S. Geol. Survey, '82-'92; Prof. of Physics, Columbian, '84-6; Adj. Prof., Columbia, '92,

*Electricity. ii, and lab. viii, 16, O.-F.

*Exact. Electr. Measurements. ii, and lab. viii, 14, F.-Jun.

Constructing and Designing Apparatus. i, 16, O.-F.

Undulatory Theory of Light. ii, 14, F.-Jun.

MICHAEL I. PUPIN, Adj. Prof. of Mechanics.

A.B., Columbia, '83; Ph.D., Berlin, '89; Tyndall Fel. in Science; Instr. in Math. Physics and E.E., Columbia, '90-2; Adj. Prof. in Mech., '92.

*Thermodynamics. iii, 16, O.-F.

*Theory of Dynamo and Motor (intro). iii, 16, O.-F.

*Intro. to Electromagn. Theory. ii, 14, F.-Jun.

*Theory of Alternators and Transformers. iii, 16, O.-F.

Maxwell's Theory of Electr. and Magnetism. ii, 30.

Thermodynamics. ii, 30.

Theoretical Electr. Engineering (adv). iii, 14, F.-Jun.

Theory of Oscillations. ii, 30.

Electromagnetic Theory of Light. ii, 30.

J. C. PFISTER, Tutor in Mechanics.

A.B., Columbia, '89, and A.M., '90.

*Thermodynamics (el). ii, 16, O.-F.

*Theoretical Mechanics. ii, 30.

HERSCHEL C. PARKER, Tutor in Physics.

Ph.B., Columbia, '90; Fel. in Physics and Asst. Instr., same, '90-1; Asst., '91-3; Tutor, '93.

*Electrical Manipulation. i, 16, O.-F.

*Theoret. Comparison of Electr. Methods. ii, 14, F.-Jun.

REGINALD GORDON, Tutor in Physics.

*The Steam Engine. i, 14, F.-Jun.

Meteorology (el). i, 16, O.-F.

CORNELL.

14 Graduate Students, 1896-7.

Franklin Hall is devoted exclusively to Physics. For magnetic and other measurements by the magnetic needle, there is a special building free from iron. There is also a special lab. of electrical engineering in the Franklin Hall Annex. The dept. issues the "Physical Review." 1 Fel. \$500, 1 Grad. School. \$300.

EDWARD L. NICHOLS, Prof. of Physics.

B.S., Cornell, '75; Ph.D., Göttingen, '79; Fellow, Johns Hopkins, '79-'80; Prof. Physics and Chemistry, Central Univ., '81-'3; Prof. Physics and Astron., Univ. of Kansas, '83-'7.

Research and Thesis Work in Exper. Physics. v-x, 32.
 *Spectroscopy (adv.). iii, 32.
 *Seminary. Readings, discussions and reports. ii, 32.
 The Galvanometer and its Uses. i, 12, O.-D.
 Photometry. i, 11, Ja.-Mar.
 Theory of the Telephone. i, 9, Ap.-Jun.

GEORGE S. MOLER, Asst. Prof. of Physics.

B.M.E., Cornell, '75; Instr. in Physics, same, '75-'80.
 *Photog. (adv.), with esp. ref. to research. ii, 20, O.-Mar.
 *Heat and Applied Electricity. Lab. ii, 32.

ERNEST G. MERRITT, Asst. Prof. of Physics.

M.E., Cornell, '86; Fellow in Physics, '86-7, '88-9; Instr., '89-'92.
 *Lab. Pract. in General Physics (adv.). iii-vi, 32.
 *Thermometry and Calorimetry. iii, 32.
 Theoretical Physics. Mechanics and Thermodynamics. iv, 32.
 [Theoretical Physics. Electricity and Magnetism. iv, 32.]
 Recent Advances in Exper. Physics. i, 32.
 Electr. and Magn. (adv.). —?

FREDERICK BEDELL, Asst. Prof. of Physics.

A.B., Yale, '90; Fellow in Electrical Eng., Cornell, '91-2, and Ph.D., '92; Instr., '92-3.
 *Magnetism of Iron. ii, 12, O.-D.
 *Theory of Electricity and Magnetism. ii, 20, Ja.-Jun.
 *Theory of Alternate Currents: ii, 20, Ja.-Jun.
 *Absolute Meas. in Electr. and Magn. Lab. iii, 32.

FREDERICK J. ROGERS, Instr. in Physics.

B.S., Kansas State Agr. Col.; M.S., Cornell '92.

*Thermodynamics. ii, 32; also i, 32.

JOHN S. SHEARER, Instr. in Physics.

B.S., Cornell, '93; Asst. in Physics, '93-4.

*Theory of Light (adv.). iv, 32.
 Wave Motion, ii, 32.

HARVARD.

15 Graduate Students, 1896-7.

[Courses marked R are open to Radcliffe Graduate Students.]

Jefferson Physical Lab. devoted to instruction and research. Isolated tower for investigations requiring great stability or height. Non-magnetic, constant temp. and photogr. rooms. Tyndall Fel. of \$500.

JOHN TROWBRIDGE, Prof. of Physics, and Dir. of the Physical Lab.

S.B., Harv. '65; Sc.D., same, '73.
 Electrodynamics, with ref. to Periodic Currents. Lab. ix, 30.
 Spectrum Anal. and the Electromagnetic Theory of Light. Research. xii, 30.
 *Electrodynamics, Magnetism, and Electromagnetism. ii, 30. (With Asst. Prof. Sabine and an Asst.)

EDWIN H. HALL, Prof. of Physics.

Ph.D., Johns Hopkins, '81.

*Els. of Thermodynamics. iii, 15, O.-Ja.

Harvard—Continued.

*Mod. Devel. of Thermodynamics. iii, 15, F.—Jun.

R) Theory of Probability and Kinetic Theory of Gases. —?

Electromagnetism and Heat Conduction. Research. —?

BENJAMIN O. PEIRCE [see 12].

R) Portions of the Math. Theory of Electricity and Magnetism. iii, 30. Electricity and Magnetism. Research. —?

*Electrostatics, Electrokinematics, and parts of Electromagnetism. i, and lab. vi-viii, 30. (With Mr. Durward.)

WALLACE C. SABINE, Asst. Prof. of Physics.

A.B., Ohio, '86; A.M., Harv., '88.

*Light and Heat. ii, and lab. vi-viii, 30.

Light and Heat. Research. —?

JOHNS HOPKINS.

23 Graduate Students, 1896-7.

Physical Lab., with constant temp., non-magnetic, and engine rooms, and those for optical work. Special facilities for work in light, heat, electricity and magnetism. Weekly meetings to discuss journals.

H. A. ROWLAND. Prof. of Physics and Dir. of Phys. Lab.

C.E., Rensselaer Polytech. Inst., '70; Asst. Prof. same, '72-5; Ph.D. (hon.), Johns Hopkins, '80.

Thermodynamics, Heat Conduction, and Phys. Optics (lects.). iv, 30. [Electricity and Magnetism (lects.). iv, 30.]

J. S. AMES, Assoc. Prof. of Physics.

Ph.D., Johns Hopkins, '90.

Physical Seminary. i, 30.

Optical Theories. ii, 15, O.-Ja.

Hydrodynamics. ii, 15, F.—My. Original work in Lab. (With Prof. Rowland.)

LOUIS DUNCAN, Assoc. Prof. of Electricity.

Ph.D., Johns Hopkins, '85.

Applied Electricity (el.). iii, 30.

Applied Electricity. ii, 30.

Seminary (with Prof. Rowland). ii, 30.

H. S. HERING, Assoc. in Electr. Engineering.

M.E., Univ. of Penn., '86.

Electr. Measurements. ii, 30.

Central Station Equipment. v, 4, —?

H. G. GEER, Assoc. in Mechan. Engineering.

M.E., Cornell, '93.

Mechanics of Engineering. ii, 30.

Steam and Hydraulic Engineering. iii, 30.

Mechanical Drawing. vi, 30.

LELAND STANFORD, JR.

o Graduate Students, 1896-7.

FERNANDO SANFORD, Prof. of Physics.

B.S., Carthage, '79, and M.S., '82; Prof. Physical Science, Mt. Morris, '79-82; Prof. Physical Science, Lake Forest, '90-1.

Experimental Optics. ii, 32.

*General Physics. iii, 32.

Orig. Problems in Lab.

MERRITT E. TAYLOR, Asst. Prof. of Physics.

B.S., Northwestern, '83, and M.S., '84; Asst. in Chemistry, '83-4; Instr. in Math., '84-6.

*Electr. and Magnet. Meas. iii, 32.

Electro-Chemical Measurements. iii,

32.

DANIEL W. MURPHY, Asst. Prof. of Physics.

A.B., Stanford, '92; A.M., '93, and Ph.D., '96. Theoretical Optics. ii, 14, S.-D. Methods of Mathematical Physics and Chem. ii, 32.

KARL E. GUTHE, Instr. in Physics.

Ph.D., Marburg, '92.

*Adv. Lab. work in Electr. and Magnetism. ii, 17, F.-Jun. Theory of Potential and its Applications. iii, 17, F.-Jun. *Physical Chemistry. ii, 17, F.-Jun.

MICHIGAN.

8 Graduate Students, 1896-7.

HENRY S. CARHART, Prof. of Physics and Dir. of Phys. Lab.

A.B., Wesleyan, '69, and A.M., '72; LL.D., same, '93.

*Dynamo Electric Machinery. iii, 17, F.-Jun. *The Alternate Current Transformer: Fleming. ii, 17, O.-F. The Theory of Heat: Preston. ii, 17, O.-F. Alternating Current Phenomena. ii, 34.

PROF. CARHART, ASST. PROF. PATTERSON, and DR. GUTHE.

*Electrical Measurements. i, and lab. iii, 17, O.-F.

GEO. W. PATTERSON, JR., Asst. Prof. of Physics.

A.B., Yale, '84; B.S., Mass. Inst. Tech., '87; A.M., Yale, '91.

Mathematical Electricity: Mascart and Joubert. iii, 17, O.-F.; ii, 17, F.-Jun.

Adv. work in Photometry. i-ii, 17, F.-Jun.

Magnetism in Iron. ii, 17, F.-Jun.

CHAS. E. ST. JOHN, Instr. in Physics.

Ph.D., Harvard, '96.

*Theory of Light: Preston. ii, and lab. ii, F.-Jun. Adv. Lab. work in Light. ii, 34.

MINNESOTA.

11 Graduate Students, 1896-7.

Additional courses in Math. Physics will be arranged to meet the needs of students.

FREDERICK S. JONES, Prof. of Physics.

A.B., Yale, '84; A.M., '95.

Electricity and Magnetism. Lab. iv, 36. Heat. Lab. iv, 36. Light. Diffraction and Spec. Analysis. Lab. iv, 36. Exper. Research. iv, 36.

JOHN ZELENY, Asst. Prof. of Physics.

A.B., Univ. of Minn., '92; Instr. in Physics, '93-6.

Adv. Lab. work in Mechanics. iv, 36.

Thermometry and Calorimetry. iv, 36.

HENRY T. EDDY, Prof. of Engineering and Mechanics.

A.B., Yale, '67; Ph.B., Sheffield S. S., '68; C.E., Cornell, '70; Ph.D., same, '72; Asst. Prof. Math. and Civil Eng., Cincinnati, '74-'90; Pres., Rose Poly. Inst., '91-4.

*Applied Mechanics. v, 36.

*Theoretical Mechanics. iv, 36.

*Thermodynamics. iii, 36.

*Turbines. iii, 12.

*Theory of Electrical Generators. ii, 36.

Analytical Theory of Heat. iv, 12.

Wave Theory. iv, 12.

Differential Equations. iv, 12.

NEW YORK.

o Graduate Students, 1896-7.

D. W. HERING, Prof. of Physics.

C.E., Yale, '78; Fel. in Engineering, Johns Hopkins, '76-8; Ph.D., W. Md. Col., '95; Prof. Math., West Md. Col., '80-4; Prof. Physics, West. Univ. of Pa., '84-5.

Magnetism and Electricity (minor course). ii, 30.

Mechanics (minor course). ii, 30.

Mechanics (major course). ii, 30.

G. W. EDMONDSON, Asst. Prof. of Physics.

A.B., Camb., '91, and Lond., '88; Fellow in Physics, Clark, '94-6; Ph.D., Clark, '96.

Dynamics. ii, 30.

Theory of Potential. ii, 15, O.-F.

Thermodynamics. ii, 14, F.-My.

NORTHWESTERN.

2 Graduate Students, 1896-7.

1 Fel. \$400.

HENRY CREW, Prof. of Physics.

A.B., Princeton, '82; Ph.D., John Hopkins '87.

*Math. Physics. iv, 36.

Math. Theory of Electr. and Magn. ii, 36.

[Phys. Optics. ii, 36.]

Lab. Research. Special Problems. —?

PENNSYLVANIA.

7 Graduate Students, 1896-7.

1 Scholarship of \$100. 1 Fellowship of \$600.

GEORGE F. BARKER, Prof. of Physics.

M.D., Alb. Med. Col., '63; Prof. Physiolog. Chem., Yale, '66-'73.

Const. and Prop. of Matter. ii, 15, O.-F.

Wave Motion and Radiation. ii, 15, F.-My.

[Theory and Pract. of Spectroscopy. ii, 15, O.-F.]

[Electr. and Magnetism. ii, 15, F.-My.]

Lab. in Abs. Phys. Measurements. ix, 30. (With Asst. Prof. Goodspeed.)

ARTHUR W. GOODSPED, Asst. Prof. of Physics.

A.B., Harv., '84; Asst. in Phys., Univ. of Pa., '84-5; Instr., same, '85-9; Ph.D., same, '90.

Theoret. Dynamics. ii, 15, O.-F.

Thermodynamics. ii, 15, F.-My.

Theory of Potential. ii, 15, F.-My.

HORACE C. RICHARDS, Instr. in Physics.

A.B., Univ. of Pa., '88; Ph.D., same, '91.

Theory of Sound. ii, 15, O.-F.

PRINCETON.

16 Graduate Students, 1896-7.

Physical Lab. supplied with apparatus for adv. study and research. Magnetic obs. (no iron) for research in electr. and magnetism, open throughout the year to Grad. Students. A skilled mechanic is at the service of this dept. for construction of special apparatus.

C. F. BRACKETT, Prof. of Physics.

A.B., Bowdoin, '59, and A.M., '62; M.D., '63; Instr. Nat. Science, Bowdoin; Prof. Nat. Science, Prof. Chem., Prof. Geol. and Zoöl., Lecturer Med. Jurispr., Prof. Chem. and Physics, same.

Electricity and Magnetism. vi, 36.

Physics of the Ether. vi, 18, S.-Ja.

Hist. of Physics. vi, 18, F.-My.

W. F. MAGIE, Prof. of Physics.

A.B., Princeton, '79; Ph.D., Berlin, '85.

*Analytical Mechanics. ii, 18, F.-My.

*Theory of Electricity. ii, 18, S.-Ja.

Math. Physics. ii, 36.

F. A. WATERMAN, Instr. in Physics.

A.B., Princeton, '88; Ph.D., same, '96; Prof. Physics, Purdue, '91-3.

*Mechanics and Heat (el). Lab. viii, 18, S.-Ja.
 *Electr. and Magn. (el). Lab. viii, 18, F.-My.
 Heat and Light, lects. on research methods. Lab. xii, 18, F.-My.
 Electr. and Magn., lects. on research methods. Lab. xii, 18, S.-Ja.
 Special Investigations. Lab. — ?
 Journal Meeting. i, 36.

J. E. MOORE, Asst. in Electr. Eng.
 M.E., Purdue, '92; E.E., Princeton, '92.
 Absolute Measurements in Electr. and Magn. vi, 36.
 Alternate Currents. vi, 36.

RADCLIFFE.

1 Graduate Student, 1896-7.

[See Harvard Courses marked R.]

WALLACE C. SABINE.

*Light. ii, and lab., 30.

VANDERBILT.

4 Graduate Students, 1896-7.

JOHN DANIEL, Prof. of Physics.

A.B., Ala., '84, and A.M., '86; Asst. Physics, same '84-6; Univ. Scholar, Physics, Johns Hopkins, '87; Adj. Prof. Physics, Vanderbilt, '90.

Electr. and Magn. iii, 32.
 Heat and Optics. iii, 32.
 Exper. Electr. vi, 32.

WELLESLEY.

o Graduate Students, 1896-7.

SARAH F. WHITING, Prof. of Physics and Physical Astronomy.

*Math. Physics. Selected Problems in Electricity, Heat, Light. iii, 35.
 *Electricity. iii, 35.

WESTERN RESERVE.

2 Graduate Students, 1896-7.

F. P. WHITMAN, Prof. of Physics and Astronomy.

A.B., Brown, '74, and A.M., '77; Prof. of Physics, Rensselaer Poly. Inst., '80-5; Prof. of Physics, Adelbert, '85.

*Physical Optics. ii, and lab. iii, 16, S.-Ja.

*Theory of Heat. iii, 17, F.-Jun.
 Theory and Practice of Electr. Measurements. i, and lab. ii, 36.

WISCONSIN.

6 Graduate Students, 1896-7.

JOHN E. DAVIES, Prof. of Electricity and Magnetism and Math. Physics.

A.B., Lawrence, '62, and A.M., '65; M.D., Chi. Med. Col., '68; LL.D., Northwestern, '87.

Math. Theory of Sound and Wave Motion. iii, 36.

Math. Theory of Electr. and Magnetism. iv, 36.

Math. Physics, with lab. work. v, 36.

YALE.

23 Graduate Students, 1896-7.

Sloane Phys. Lab. spec. devoted to invest. and research in Phys. Rooms for optical and photographic work, esp. in spectrum. Engine room, dynamos and apparatus for electric and magnetic work.

A. W. WRIGHT, Prof. of Exper. Physics.

A.B., Yale, '59, and Ph.D., '61; Prof. Nat. Philos. and Chem., Williams.

*Physics (el). ii, 32.
 Physics (adv and research). — ?

C. S. HASTINGS, Prof. of Physics.

Ph.B., Yale, '70, and Ph.D., '73; Assoc. Prof. Physics, Johns Hopkins.

Yale—Continued.

Physics (lects. and lab. work on special subjects). Lects. iii, lab. vi, 32.

J. W. GIBBS [see 12].

[Electro-Magnetic Theory of Light. ii, 32.]

[Dynamics and Thermodynamics. i, 32.]
Thermodynamics and Properties of Matter. ii, 32.
Electricity and Magnetism. i, 32.

W. G. MIXTER [see 15].

Chemical Physics. — ?

15. CHEMISTRY.

[For Mineralogy, see 17.]

BARNARD.

^a Graduate Students, 1896-7.

HERMANN T. VULTÉ.

Quantitative Anal. viii, 30.
Organic Chem. ix, 30.
Sanitary and Household Chem. vii, 30.
Theoretical Chem. iv, 30.

Theoret. and Physical Chem. i, 30.
*Thermo-Chemistry. i, 30.

ELMER P. KOHLER, Assoc. in Physics.

A.B., Muhlenberg, '86, and A.M., '89; A.M., Johns Hopkins, '90; Fel., '91-2, and Ph.D., '92.

Organic Chemistry (adv). i, 30.
*Organic Chem., Selected Topics. i, 30.

EDGAR BUCKINGHAM [see 14].

Thermodynamics. ii, 15, F.-Jun.

DRS. KEISER and KOHLER.

Seminary. i, 30.
Journal Club. i, 30.

CALIFORNIA.

WILLARD B. RISING, Prof. of Chem.

A.M., and M.E., Hamilton; Ph.D., Heidelberg.

Chemical Seminary. — ?
Special Research in Thermal Chem. — ?

Heat Value of Fuel; Explosives; Selected Topics in Inorg. Chem.; Adv. Quant. Anal. — ?

EDMOND O'NEILL, Assoc. Prof. of Organic and Physiological Chem.

Ph.D., Univ. of Cal.

[Gives with Prof. Rising the preceding courses.]

BRYN MAWR.

^a Graduate Students, 1896-7.

¹ Fellowship \$525.

EDWARD H. KEISER, Prof. of Chem.

S.B., Swarthmore, '80; Asst. in Chem., '80-1, and S.M., '81; Fel., Johns Hopkins, '82-4, and Ph.D., '84; Asst. in Chem., '84-5.

CHICAGO.

44 Graduate Students, 1896-7; and 37 in Summer Quarter, '96.

Kent Chem. Lab. equipped for scientific research. 4 Fels.

JOHN ULRIC NEF, Prof. of Chem.

A.B., Harv., '84; Kirkland Fel., same, '84-7; Ph.D., Munich, '86; Prof. of Chem., Purdue, '87-9; Asst. Prof. of Chem., and Acting Head of Lab., Clark, '89-'92.

Research for Ph. D. Thesis. Organic Chem. xxx-xl, 36, Au.-My.

*Special Organic Chem. Lects. ii, 6, Au.-S.

Organic Chem. Lects. v, 30, O.-My. Organic Preparations. x-xx, 30, O.-My.

Journal Meetings. i, 24, O.-Mar.

FELIX LENGFELD, Asst. Prof. of Chem.

Ph.G., Univ. of Cal., '80; Fel., Johns Hopkins, '87-8, and Ph.D., '88; Prof. of Chem., So. Dakota School of Mines, '90-1; Instr. in Chem., Univ. of Cal., '91-2; Docent in Chem., Chicago, '92-3; Tutor, '93-94; Instr., '94-5.

*Inorganic Chem. (adv). Lects. ii, 24, O.-Ja.

Theoretical Chem. Lects. ii, 24, O.-Mar.

Physico-Chem. Methods. v, 12.

Inorganic Preparations. x-xx, 24, Ja.-Jun.

Research for Ph. D. Thesis. Inorganic Chem. xxx-xl, 48, Jul.-Jun.

ALEXANDER SMITH, Asst. Prof. of Chemistry.

B.Sc., Edinburgh, '86; Ph.D., Munich, '89; Asst. in Chem., Edinburgh, '89-'90; Prof. of Chem. and Mineralogy, Wabash, '90-4.

*Gen. Chem. (adv). Lects. iv, 12, Ap.-Jun.

Inorganic Preparations. x-xx, 12, Ap.-Jun.

Research for Ph.D. Thesis. Gen. Chem. xxx-xl, O.-Jun.

JULIUS STIEGLITZ, Instr. in Chem.

Ph.D., Berlin, '89; Docent in Chem., Chicago, '92-3; Asst., same, '93-4.

Research for Ph.D. Thesis. Organic Chem. xxx-xl, 36, Jul.-Mar.

*Carbohydrates and Complex Hydrocarbons. Lects. iv, 12, Jul.-Au.

*Organic Nitrogen Derivatives. Lects. ii, 12, Ja.-Mar.

*Electrolytic Methods. x, 12, Jul.-Ja.

RICHARD S. CURTISS, Docent in Chem.

Ph.B., Yale, '88; Chemist, Conn. Agricul. Exper. Station, '88-'90; Ph.D., Würzburg, '92.

*Gen. Organic Chem. v, 12, Jul.-S.

*Organic Preparations. x-xx, 12, Jul.-S.

*Inorganic Preparations. x-xx, 12, Jul.-S.

*Gas Analysis. x, 12, Ja.-Mar.

COLUMBIA.

12 Graduate Students, 1896-7.

Chemical museum has 8,000 specimens. Collection of apparatus and instruments.

PIERRE DE P. RICKETTS, Prof. of Analyt. Chem. and Assaying.

E.M., Columbia, '7x, and Ph.D., '76; Asst. in Chem., same, '68; Asst. in Mineral. and Metal., '71-2; Asst. in Assaying, '72-5, and Instr., '75-'86; Prof. of Assaying, and later of Analyt. Chem. and Assaying, since '86.

Investiga. of New Methods of Qual. and Quant. Anal. x, 30. (With Dr. Wells.)

Spectroscope Anal. viii, 30. (With Dr. Wells.)

Quant. Anal. iv, and lab. xv, 1½ yrs. (With Mr. Bowen and Dr. Vulté.)

Special Volumetric Methods. Conf. and lab. viii, 30.

Revision of Constants. Conf., and lab. xii, 30. (With Dr. Vulté.)

Special Methods for Anal. of Plants and their Products. Conf., and lab. xii, 30. (With Dr. Vulté.)

Electrolytic Anal. Conf., and lab. xii, 2 yrs. (With Dr. Wells.)

Columbia—Continued.

CHARLES E. COLBY, Adj. Prof. of Organic Chemistry.

C.E., and E.M., Columbia, '77.

Organic Chem. (el). iv, 30.

Gen. Org. Chem. Lects and recit. vi, and lab. xviii, 30. (With Mr. Bogert.)

Org. Chem. (adv). Lab. xii, 30. (With Mr. Bogert.)

Org. Chem. (adv). Research. — ? 30. (With Mr. Bogert.)

CHARLES E. PELLEW, Demonstrator in Chemistry and Physics.

E.M., Columbia, '84; Instr. Physics and Chem., same, '87-'91; Hon. Fel. in Applied Chem.

*Physiological Chem. ii, and lab. vi, 16, O.-F. (With Mr. Tucker.)

Toxicology. ii, and lab. ii, 16, O.-F.; also 14, F.-Jun. (With Mr. Johnson.)

JAMES S. C. WELLS, Instr. in Qual. Anal.

Ph.D., Columbia, '77.

Chem. Reactions. Confs., and lab. viii, 30. (With Mr. Bowen.)

FERDINAND G. WIECHMANN, Instr. in Chem. Philos. and Chem. Physics.

Ph.D., Columbia, '82.

Chem. Philosophy. ii, 30.

Chem. Philosophy (adv). iv, 30.

HERMAN T. VULTÉ, Instr. in Chem.

Ph.B., Columbia, '81; Ph.D., Columbia, '85; Tutor in Chemistry, '94-7; Instr. in Chemistry, '97.

Prep. of Inorg. Compounds. i, and lab. iii, 8, Ap.-My.

Prep. of Inorg. Compounds. Confs. i, lab. viii, 30.

CORNELL.

14 Graduate Students, 1896-7.

Special building, 35 rooms; laboratories, museum, lib. of 2,000 vols., including complete sets of all important chemical journals. 14 officers of instr. Four seminaries. 1 Fel. \$500, 1 Grad. Schol. \$300.

GEORGE C. CALDWELL, Prof. of Gen. Chem. and Agricul. Chem.

B.S., Harv., '55; Ph.D., Göttingen, '57; Prof. of Agricul. Chem., Cornell, '68-75; Prof. Agricul. Chem. and Analyt. Chem., '75-'93.

Sem in Agricul. Chem. i, 32.

*[Hist. of Chem. iii, 32.]

*Quant. Anal. (adv). — ? O.-Jun. (With Prof. Dennis.)

*The Polariscopic, Refractometer, and Methods of Determining Specific Gravity. i, II, Ja.-Mar.

LOUIS M. DENNIS, Assoc. Prof. of Analyt. Chem.

Ph.B., Mich., '85; B.S. (in Chem.), Mich., '86; Instr. in Chem., Cornell, '87-9; Asst. Prof. of Analyt. Chem., '91-4.

*Quant. Anal. (adv). — ? O.-Jun. (With Prof. Caldwell.)

*Qual. and Quant. Gas. Anal. Lects. ii, lab. vii, II, Ja.-Mar.

*Spectroscopic Chem. Anal. and Colorimetry. Lects. i, lab. ii, 12, O.-D.

*Inorganic Chem. (adv). Lects. iii, lab. xx-xl, 32.

Adv. Inorganic Chem. Sem. i, 32.

WILLIAM R. ORNDORFF, Asst. Prof. of Organic Chem.

Ph.D., Johns Hopkins, '87; Instr. in Chem., Cornell, '87-'90.

*Organic Chem. (el). Lects. iii, lab. iii, 32.

*Special Chapters in Organic Chem. ii, 32.

*Organic Chem. (adv). Lab. — ? 32.

*Coal Tar Dyestuffs. i, 23, O.-Mar.

*Stereochimistry. i, 9, Ap.-Jun.

*Sem. in Organic Chem. ii, 32. Research in Organic Chem. Lab. xxx-xl, 32.

JOSEPH E. TREVOR, Asst. Prof. of Gen. Chem. and Phys. Chem.
Ph.D., Leipzig, '92.
Math. Chem. iii, 32.
[History of Thermodynamics. iii, 32.]
Journal Club. i, 32. (With Prof. Bancroft.)

WILDER D. BANCROFT, Asst. Prof. of Phys. Chem.
A.B., Harv., '88; Ph.D., Leipzig, '92; Asst. in Phys. Chem., Harv., '93-4; Instr., '94-5.
Qual. Phys. Chem. ii, 32.
Quant. Phys. Chem. iii, 32.
[Electrochemistry. ii, 32.]
Journal Club. i, 32. (With Prof. Trevor.)
Phys. Chem. Lab. —? 32.

HARVARD.

16 Graduate Students, 1896-7.

Seven large labs. in Boylston Hall, besides private labs. and preparation rooms; also departmental lib. and chem. museum. Instructors offer to direct adv. students in any line of chem. investigation.

CHARLES L. JACKSON, Prof. of Chem.

A.B., Harv., '67, and A.M., '70.

Organic Chem. Research. v, 30.

HENRY B. HILL, Prof. of Chem. and Dir. of Lab.

A.B., Harv., '69, and A.M., '72.

*Carbon Compounds. Ultimate Organic Analyses. iii, 30. (With an Asst.)
Organic Chem. Research. vi, 30.

THEODORE W. RICHARDS, Asst. Prof. of Chem.

S.B., Haverford, '85; A.B., Harv., '86; Ph.D., same, '88.

*Quant. Anal. (adv). iii, 15, O.-Ja.
*Gas Anal. iii, 15, F.-Jun.
*Hist. of Chem. and Chem. Philos. ii, 15, F.-Jun.

Physical Chem. iii, 30. (With an Asst.)
Inorganic Chem. Atomic Weights. Research. v, 30.
Physical Chem. Research. v, 30.

JOHNS HOPKINS.

37 Graduate Students, 1896-7.

Weekly Journal Meetings. 10 or 12 Lectures by adv. students on spec. topics. Lab. daily, 9 to 5, under Profs. Remsen and Morse.

IRA REMSEN, Prof. of Chem. and Dir. of Chem. Lab.

A.B., Col. City of N. Y., '65; M.D., Col. Physicians and Surgeons, N. Y., '67; Ph.D., Göttingen, '70; Prof. Chem. Williams, '72-6; LL.D., Columbia, '93, and Princeton, '96.

Hist. of Chemistry. ii, 12, O.-D.
Compounds of Carbon. v, 18, Ja.-My.
Special Research. —?

H. N. MORSE, Prof. of Analyt. Chem.

A.B., Amherst, '73; Ph.D., Göttingen, '75; Instr. in Chem., Amherst, '75-6.

Analyt. Methods. i, 30.

W. W. RANDALL, Assoc. in Chem.

Ph.D., Johns Hopkins, '90.

Princ. of Physical Chem. ii, 12, O.-D.

LELAND STANFORD, JR.

4 Graduate Students, 1896-7.

JOHN M. STILLMAN, Prof. of Chem.

Ph.B., Univ. of Cal., '74; Ph.D., same, '85; Asst. in Chemistry, '73-5; Instr. in Organic and Gen. Chem., California, '76-82.

*Industrial Chem. ii, 32.

*Theories of Chem. ii, 14, S.-D.
Adv. Lab. Work. —? (With Profs. Richardson, Lenox, and Young.)

Leland Stanford, Jr.—Continued.

GEORGE M. RICHARDSON, Prof. of Organic Chem.

A.C., Lehigh, '86; Ph.D., Johns Hopkins, '90; Instr. in Quant. Chem. Anal., Lehigh, '88-9; Fel. in Chem., Johns Hopkins, '89-90; Instr. in Organic Chem., Lehigh, '90-1.

*Hist. of Chem. i, 18, Ja.-My.

*Organic Synthesis. i, 18, Ja.-My.

LIONEL R. LENOX, Prof. of Analyt. Chem.

Ph.B., Columbia, '88; Instr. in Chem., Lehigh, '88-'91.

*Urine Analysis. ii, 14, S.-D.

*Toxicology. ii, 14, S.-D.

STEWART W. YOUNG, Asst. Prof. of Chem.

B.S., Cornell, '90; Asst. in Chem., '90-1; Instr. in Chem., Swarthmore, '91-3.

*Organic Chem. (adv). i, 32.

Electro-Chemistry. i, 32.

MICHIGAN.

12 Graduate Students, 1896-7.

1 Fellowship \$500; 1 Assistantship \$300.

Journal Club, in which all instructors take part. ii, 17, F.-Jun.

PAUL C. FREER, Prof. of Gen. Chem. and Dir. of Lab. of Gen. Chem.

M.D., Rush Med. Col., '82; Ph.D., Munich, '87; Asst. in Chem., Tufts, '87; Instr. same, '88; Lect. in Chem., Mich., '89; Prof. same, '89.

*Theoret. Chem. of Recent Years. iii, 17, O.-F.

Lab. Research. — ? 34.

GEO. O. HIGLEY, Instr. in Chem.

B.S., Mich., '91, and M.S., '92.

*Methods of Determining Molecular Weights. Lab. ii, 17, F.-Jun.

*Lab. Research. — ? 34.

D. M. LICHTY, Instr. in Chem.

B.S., Westchester Normal School, '87; M.S., Michigan, '91.

*Lab. Work. ii, 17, F.-Jun.
Lab. Research. — ? 34.

P. L. SHERMAN, JR., Instr. in Chem.

Ph.D., Munich, '95.

Lab. Research in Organic Chem. — ? 34.

ARTHUR LACHMAN, Fellow in Gen. Chem.

B.S., Cal., '93; Ph.D., Munich, '95.

Lab. Research in Nitrogen and Organic Chem. — ? 34.

Lab. Work in Physical Chem. — ? 34.

VICTOR C. VAUGHAN, Prof. of Hygiene and Physiol. Chem., and Dean of Dept. of Medicine and Surgery.

Ph.B., Mich., '75, Ph.D., '76, and M.D., '78.

Original Research on Causation of Disease. — ? 34.

FREDERICK G. NOVY, Jun. Prof. of Hygiene and Physiol. Chem.

Sc.D., Michigan, '90, and M.D., '91.

Physiol. Chem. (adv). — ? 34.

A. B. PRESCOTT, Dir. of Chem. Lab., and Prof. of Organic Chem.

M.D., Mich., '64.

*Carbon Compounds. Lects. v, 18, O.-F.; also v, 16, F.-Jun.

*Analyt. Organic Chem. v, 34.

Research. Lab. v, 34.
Chosen Subjects. Lects. ii, 16, F.-Jun.

O. C. JOHNSON, Prof. of Applied Chem.

A.B., Oberlin, '68; Ph.C., Mich., '77; A.M., Oberlin, '77.

*Analyt. Chem., Adv. Qual. Lects. ii, lab. v, 17, F.-Jun.

Inorg. Reactions. Lab. v, 34.

E. D. CAMPBELL, Jun. Prof. of Metallurgical Chem.

B.S., Mich., '86.

*Analyt. Chem., Adv. Quant. Lects. ii, lab. v, 34.

Research in Analytical Chem. and Metallic Carbides. Lab. v, 34.

M. GOMBERG, Instr. in Organic Chem.

Sc.D., Mich., '94.

*Organic Preparations. Lab. v, 34. Benzene Deriv. Lects. iv, 16, F.-Jun. Organic Research. Lab. — ? 34.

P. F. TROWBRIDGE, Instr. in Organic Chem.

Ph.B., Mich., '92.

*Organic Preparations and Combinations. Lab. v, 34.

Research. Lab. v, 34.

MINNESOTA.

13 Graduate Students, 1896-7.

GEORGE B. FRANKFORTER, Prof. of Chemistry.

B.S., Univ. of Nebraska, '86, and A.M., '88; Ph.D., Berlin, '93; Prof. of Analyt. Chem., Univ. of Neb., '93.

Research in Electrochemistry. iv, 24. Chemistry of Compounds of Carbon. v, 36.

Plant Alkaloids. iv, 24.

Special Analyt. Chem. iv, 36.

WILLIAM R. APPLEBY, Prof. of Metallurgy.

A.B., Williams, '86.

*Iron and Steel. iv, 12.

*The Precious Metals. iv, 12.

*The Base Metals. iv, 24.

NEW YORK.

3 Graduate Students, 1896-7.

ROBERT W. HALL, Prof. of Analytical Chemistry.

A.M., Princeton, '76; M.E., Columbia, '76.

Analyt. Chem. (adv). Lab. ii, 30.

Inorganic Syntheses. Lab. i, 30.

Inorganic Research. Lab. ii, 30.

Organic Chem. Lects. and lab. ii, 30.

MORRIS GOCH, Prof. of Chemistry.

A.B., Harvard, '83; Ph.D., Berlin, '87; Dozent, Clark, '89-'91.

Phys. Chem. Lects. and lab. iv, 30. Seminary in Hist. and Theory of Chem. ii, 30.

Organic Chem. Lects. and lab. iv, 30.

Kinetic Theory of Gasses. ii, 15.

NORTHWESTERN.

2 Graduate Students, 1896-7.

1 Fellowship \$400.

ABRAM VAN EPS YOUNG, Prof. of Chem.

Ph.B., Mich., '75; Fellow, Johns Hopkins, '77-9; Asst. in Chem., Harvard, '83-5.

*Gen., Descriptive, and Organic Chem., and Qual. and Quant. Anal. (el). iv, 36.

*General Chem. (adv). ii, 36.

*Sanitary Chemistry. ii, 36.

Exper. Research. Inorganic. x-xv, 36.

PENNSYLVANIA.

23 Graduate Students, 1896-7.

Special building exclusively for Chemistry. x Fellowship of \$600, 1 Scholarship of \$100.

EDGAR F. SMITH, Prof. of Chem.

B.S., Pa. Col., '74; Ph.D., Göttingen, '76; Prof. of Chem., Wittenberg, '83.

Adv. Inorg. Chem. ii, 30.

Analyt. Chem. i, 30.

Hist. of Chem. Theory. i, 30.

Electro-Chem. ii, 30.

Sem. Min. Analysis. i, 15, O.-F.

HERMAN FLECK, Instr. in Chem.

Ph.D., Tübingen, '93.

Org. Chem. ii, 30.

Gas Analysis. Sem. i, 15, F.-My.

Pennsylvania—Continued.

WILLETT L. HARDIN, Senior Fel. in Chem.

B.S., Buchtel, '93; Instr. Phys., same, '93-4; Fel. in Chem., Univ. of Pa., '95-6; Ph.D., same, '96.

Physical Chem. i, 30.

PRINCETON.

2 Graduate Students, 1896-7.

H. B. CORNWALL, Prof. of Applied Chem. and Mineralogy.

A.B., Columbia, '64; E.M., '67, and Ph.D., '88; Asst. in Chem. and Mineralogy, same.

*Quant. Chem. Anal. iv, 18, F.-My.

*Quant. Anal. (adv.) vi, 36.

*Organic Chem. ii, 18, S.-Ja.

Special tech. courses. —?

L. W. MCKAY, Prof. of Chem.

A.B., Princeton, '78, and Sc.D., '83.

*Theoret. and Org. Chem. ii, 18, S.-Ja.

RADCLIFFE.

o Graduate Students, 1896-7.

T. W. RICHARDS.

*Hist. of Chem. and Chem. Philos. ii, 15, F.-Jun.

Inorganic Chem., incl. Determination of Atomic Weights. Research. —?

VANDERBILT.

2 Graduate Students, 1896-7.

WM. L. DUDLEY, Prof. of Chem.

Dean Med. Dept., Univ. Cin., '76-9; Prof. Chem., Miami Med. Col., '80-6; State Chemist, '90-1; Dean Vand. Med., '96.

*Chem. Technology. iii, 32.

Adv. Quant. Analysis. Lects. iii, and lab., 32.

Metallurgy. Lects. ii, and lab., 32.

Adv. Analysis. Research. Lects. iii, and lab., 32.

J. T. MCGILL, Adj. Prof. of Chem.

B.S., Vanderbilt, '79, Ph.D., '81, and Ph.G., '82.

Theories and Princ. Org. Chem. (adv.). ii, 32.

Organic Chem. (adv.). Lects. iii, and lab., 32.

*Carbon Compounds. Lects. ii, and lab., 32.

Adv. Research and Invest. Org. Chem. Lects. iii, and lab., 32.

W. H. HOLLINSHEAD, Instr. in Chem.

Ph.G., Vanderbilt, '87.

Adv. Analyt. Chem. Lab. vi, 32.

WELLESLEY.

1 Graduate Student, 1896-7.

CHARLOTTE F. ROBERTS, Prof. of Chem.

A.B., Wellesley, '80; Ph.D., Yale, '94.

*Qual. Analysis. iii, 35.

*Organic Chem., with lab. work. iii, 35.

*Theoret. Chem. iii, 17, S.-Ja.

CHARLOTTE A. BRAGG, Instr. in Chem.

B.S., Mass. Inst. Tech., '90.

*Qual. Analysis. iii, 17, S.-Ja.

*Intro. to Organic Chem. iii, 17, F.—Jun.

EMMA H. PARKER, Instr. in Chem.

B.S., Smith, '87.

*Quant. Analysis. iii, 17, F.-Jun.

WESTERN RESERVE.

3 Graduate Students, 1896-7.

E. W. MORLEY, Prof. of Chem.

A.B., Williams, '60; Prof. of Chem., West. Res., and Adelbert, '69.

H. GREUNER, Instr. in Chem.

A.B., Yale, '91, and Ph.D., '93: Instr. in Chem., Adelbert, '95.

*Organic Chem. ii, and lab. iii, 36.
*Quantitative Analysis. Lab. i, 36.

WISCONSIN.

9 Graduate Students, 1896-7.

WILLIAM W. DANIELLS, Prof. of Chem.

M.S., Mich. Agricult. Col., '67; Prof. of Agricult., Wis., '68; Prof. of Analyt. Chem. and Agricult., '69-'80.

*Inorganic Chem. (adv). Lects. and lab., v, 36.
Analytical Chem. (adv). Lects. and lab., v, 36.

HOMER W. HILLYER, Asst. Prof. of Organic Chem.

A.B., Wis., '82; Fellow, Johns Hopkins, '84-5, and Ph.D., '85.

Organic Chem. (adv). — ? 36.

LOUIS KAHLENBERG, Instr. in Physical Chemistry.

B.S., Wis., '92; Fel. in Chem., '92-3; M.S., Wis., '93; Instr. in Chem., '93-4; Ph.D., Leipzig, '95.

Physical Chem. Lects. iii, and lab., 36.

Electrochem. Lects. ii, and lab., 36.

EDWARD KREMERS, Prof. of Pharmaceutical Chem.

Ph.G., Wis., '86, and B.S., '88; Ph.D., Göttingen, '90; Instr. Pharm. Chem., Wis., '90-2.

Polyatomic Alcohols of Paraffin Hydrocarbons and their Derivatives, with spec. ref. to Sugars and Glucosides. i, 18, S.-F.

Hydrocymenes and Derivatives, with spec. ref. to Volatile Oils. i, 18, F.-Jun.

Orig. work and research, esp. of Terpenes and Volatile Oils. — ?

YALE.

33 Graduate Students, 1896-7.

W. G. MIXTER, Prof. of Chem.

Ph.B., Yale, '67, and A.M., '87.

Chemical Physics. — ?

F. A. GOOCH, Prof. of Chem.

A.B., Harv., '72; Asst., same, '72-5; Ph.D., same, '77; Expert Spec. Agt., U. S. 10th Census; Chem. Northern Transcont. Survey, '81-4; U. S. Geol. Survey, '84-6.

*Organic Chem. (el). iv, 32.
*Quant. Anal. vi, 32.
Quant. Anal. (2d course). Lab. vi, 32.
Organic Synthesis. Lab. — ?
Chemical Theory. i, 32.
Special Methods. Lab. — ?
Research in Inorganic Chem. — ?
*Exper. Inorg. Chem. vi, 32. (With Dr. Browning.)

P. E. BROWNING, Instr. in Chem.

A.B., Yale, '89, and Ph.D., '92.

*Qual. Anal. v, 32.
Inorg. Preparations. Lab. — ?
Rare Elements. i, 32.

H. L. WELLS, Prof. of Analyt. Chem. and Metallurgy.

Ph.B., Yale, '77; Chemist, Conn. Agricult. Exper. Station.

*Qual. Anal. (el). ii, and lab., O.-D.
*Quant. Anal. Lects. and lab. — ? 32.
Quant. Anal. (adv). xxxv, 32.
*Metallurgy and Assaying. Lects. and lab. — ? Easter-Jun.
*Tech. Gas Anal. — ? Easter-Jun.
Investiga. in Inorg. Chem. — ? 32.

H. L. WHEELER, Instr. in Chem.

Ph.B., Yale, '90, and Ph.D., '93.

Organic Chem. (adv). — ? 32.

Organic Preparations. — ? Ja.-Ap.

Yale—*Continued.*

W. J. COMSTOCK, Instr. in Organic Chem.
Ph.B., Yale, '79.
Organic Chem. (adv). —? 32.
Organic Chem. —? Ja.-Ap.

B. B. BOLTWOOD, Asst. in Anal. Chem.
Ph.B., Yale, '92.
Physico-Chem. Meas. Lects. and lab.
—? Ja.-June.
Electro-Chem. Lects. and lab. —?
Ja.-Jun.

16. BIOLOGY.

[Including Zoölogy, Botany, Physiology, and Palæontology (in part). See also 17.]

BARNARD.

2 Graduate Students, 1896-7.

Plant Anatomy and Physiology. vi, 30.
Special Problems in Anatomy. iii, 30.
Special Study of Some Group of Plants or Problem. iii, 30.
Adv. Research. Lab. —?

HENRY F. OSBORN.

Comp. Zoöl. vi, 30. (With Prof. Wilson.)
Morphol. of Mammals. vi, 30.
Vertebrate Organogeny. Lects. and lab., iv, 14, F.-Jun. (With Dr. Dean.)
Seminar. i, 30.

EDMUND B. WILSON.

Comp. Embryology. vi, 16, O.-F.
Cellular Biology. vi, 14, F.-Jun.
Special and Experimental Embryology. i, 14, F.-Jun.

BASHFORD DEAN, Instr. in Biology.

Morphology of Fishes. vi, 14, F.-Jun.
Embryology of Fishes. i, 14, F.-Jun.

GARY N. CALKINS.

Special Morphology. i, 14, F.-Jun.

Advanced Biology. xii, 30.

BROWN.

9 Graduate Students, 1896-7.

ALPHEUS S. PACKARD, Prof. of Zoöl. and Geol.

Ph.D., Bowdoin; Libr. and Custodian, Boston Soc. Nat. Hist., '65; Lect., Mass. Agricult. Col. '69-'77; Maine Agricult. Col., '71; Bowdoin, '73-6.

*Zoölogy. iii, 21, Ja.-Jun.

*[Entomology. iii, 21, Ja.-Jun.]

HERMON C. BUMPUS, Prof. of Comp. Anat.

B.P., Brown, '84; Ph.D., Clark, '90; Instr. Biol., Brown, '84-5; Prof. Biol., Olivet, '85-8; Fel. in Morphol., Clark, '88-9; Assoc. Prof. Biol., Brown, '89-'90; Asst. Dir. Marine Biol. Lab., Wood's Holl., '94-5.

*Invert. Anatomy. iii, 10, Ap.-Jun.

*Comp. Anat. Vertebrates. iii, 23, S.-Mar.

ALBERT D. MEAD, Assoc. Prof. of Embryology and Neurology.

A.B., Middlebury Col., '00; A.M., Brown, '02; Fellow in Biology, Clark, '92; Fellow, Univ. Chicago, '93-5; Ph.D., Chicago, '95.

*Anatomy of Nervous System. iii, 23,
S.-Mar.

*Embryology. iii, 10, Ap.-Jun.

Cytology. iii, 33.

FREDERIC P. GORHAM, Instr. in Biol.

A.B., Brown, '93, and A.M., '94.

*Vertebrate Anat. vi, 23, S.-Mar.

*Bacteriology. vi, 11, Ja.-Mar.

RALPH W. TOWER, Instr. in Physiol.
Chem.

A.B., Brown, '92, and A.M., '93; Instr. Biol.,
'92-3; Fellow, '94-5.

*Chem. Physiology. iii, 33.

BRYN MAWR.

7 Graduate Students, 1896-7.

1 Fellowship \$525.

THOMAS H. MORGAN, Prof. of Biol.

B.S., State Col. Kentucky, '86, and M.S., '88;
Graduate Schol., John Hopkins, '88-9; Fel.,
'89-'90; Ph.D., '90, and Bruce Fel., '90-1.

Critique of Darwin's Theory of Nat-
ural Selection. i, 30.

*Embryology. i, 30.

*General Zoölogy. i, 30.

JOSEPH W. WARREN, Assoc. Prof. of
Physiology.

A.B., Harv., '71; M.D., Univ. of Bonn, '80;
Asst. and Instr. in Physiol., Harv. Med. Sch.,
'80-'81; Lect. in Med. Dept., Univ. City of
N. Y., '85-6; Lect. in Physiol., Mich., '89.

Physiol. of Special Senses. i, 30.
[Respiration and Secretion. i, 30.]

*Struct. and Funct. of the Central Ner-
vous System. i, 30.

*Physiology (adv). i, 30.

DRS. MORGAN AND WARREN.

Seminary. Fortnightly.

Journal Meeting. Fortnightly.

CALIFORNIA.

10 Graduate Students, 1896-7.

JOSEPH LE CONTE [see 17].

Physiological Optics. ii, 16, Ja.-My.
Gen. Laws of Animal Structure. — ?

WILLIAM A. SETCHELL, Prof. of Botany.

A.B., Yale; Ph.D., Harvard.

Cryptogamic Botany (adv). — ?
Botanical Seminary. — ?

*Phycology and Mycology. ii, 32.
*[Bryology and Pteridology. — ?]

WILLIAM E. RITTER, Asst. Prof. of
Biology.

A.M., and Ph.D., Harvard.

Asexual Reproduction in Animals. ii,
16, Ja.-My.

Special Research. — ?

Zoölogical Seminary. — ?

HERBERT P. JOHNSON, Asst. Prof. of
Biology.

Ph.D., Chicago.

Systematic and Field Zoöl. — ?

Comparative Embryology. — ?

Zoölogical Seminary. — ?

CHARLES W. WOODWORTH, Asst. Prof.
of Entomology.

M.S., Illinois.

*Systematic Entomology. iii, 16, Ja.-
My.

*Structural Entomology. iii, 16, Ja.-
My.

*Entomological Lab. iv-vi, 32.

WILLIS L. JEPSON, Instr. in Botany.

Ph.B., Univ. of Cal.

Phænogamic Botany (adv). — ?

*Morphol. of the Compositæ. i, 16,
Au.-D.

*[Taxonomy and Phylogeny of the
Phænogams. — ?]

California — *Continued.*

W. J. V. OSTERHOUT.

A.B., and A.M., Brown.

Histology and Cytology (adv). — ?
*Vegetable Cytology. — ?

CHICAGO.

36 Graduate Students, 1896-7; and 44 in Summer Quarter, '96.

Hull Biological Laboratories equipped for research. 13 Fels.

CHARLES C. WHITMAN, Head Prof. of Zoölogy.

A.B., Bowdoin, '68, and A.M., '71; Ph.D., Leipzig, '78; LL.D., Nebraska, '94; Fel., Johns Hopkins, '79; Prof. Zoölogy, Imp. Univ. of Japan, '80-1; Asst. in Zoöl., Harv., '83-5; Prof. Zoöl., Clark, '89-92; Dir. Marina Biol. Lab.

Marine Zoöl. (at Wood's Holl.). viii, 12, Jul.-S.

Seminar. Hist. Topics. i, 24, O.-Mar. Embryol. Higher Invert. Lects. and lab., xii, 24, O.-Mar.

Embryol. Vert. viii, 12, Ap.-Jun.

WM. M. WHEELER, Asst. Prof. in Embryology.

Curator, Milwaukee Pub. Museum, '87-'90; Asst. in Morphology, Clark, '90-2, and Ph.D., '92.

*Entomology. iv-viii, 36 or 18, O.-Jun.

*Embryology (adv). viii, 6, Ap.-Jun.

EDWIN O. JORDAN, Asst. Prof. in Bacteriology.

S.B., Mass. Inst. Tech., '88; Chief Asst. Biol., Mass. State Bd. of Health, '88-'90; Lect. on Biol., Mass. Inst. Tech., '89-'90; Fel., Clark, '90-2, and Ph.D., '92.

*Special Bacteriology. iv-viii, 12 or 6, O.-D.; also Ja.-Mar., and Jul.-S.

*Gen. Bacteriology. viii, 6, Jul.-S.

SHO WATASE, Asst. Prof. in Cellular Biology.

B.S., College of Sapporo, Japan, '84; Ph.D., Johns Hopkins, '90; Asst. and Lect., Clark, '90-2.

Outline of Modern Cell-Theory. — ?
6, Jul.-Au.Anat. and Physiol. of the Cell. — ?
24, O.-Mar.Current Probs. in Cell-Theory. — ?
12, Ap.-Jun.

HENRY H. DONALDSON, Head Prof. of Neurology.

A.B., Yale, '79; Fel., Johns Hopkins, '81-3; Instr. in Biol., same, '83-4; Ph.D., '85; Assoc. in Psychol., '87-8; Asst. Prof. Neurology, Clark, '89-'92.

*Research. viii, 48.

*Nervous System. Architecture, iv, 12, O.-D. Brain Growth, Ja.-Mar. Special Sense Organs in the Cent. Nerv. Syst., Ja.-Ap. Localization of Functions, Ap.-Jun.

*Devel. of Cent. Nerv. Syst. iv, 12, Jul.-S.

*Seminar. ii, 12, Ap.-Jun.

GEORGE BAUR, Assoc. Prof. of Palaeontology.

Ph.D., Munich, '82; Asst., Munich, '82-4; Asst., Yale, '84-'90; Docent, Clark, '90-2.

Palaeontol. of Vertebr. Lects. iv, lab. iv, Ja.-Jun.

Morphol. of Vert. Skeleton. iii, 6, Jul.-Au.

Syst. Phylogeny of Vertebr. iv, 12, O.-D.

Seminar in Phylogeny. ii, 36, O.-Jun.

Research in Vert. Palaeontol. vi, 36, O.-Jun.

JOHN M. COULTER, Head Prof. of Botany.

A.B., Hanover, '70, and A.M., '73; Prof. Nat. Science, same, '74-9; Ph.D., Hanover, and Indiana, '82; Prof. Biol., Wabash, '79-'91; Pres. and Prof. Bot., Indiana, '91-3; Pres. Lake Forest, '93-6.

[Special Morph. Gymnosperms. xii, 12, O.-D. Monocotyledons, Ja.-Mar. Dicotyledons, Ap.-Jun.]
Special Morph. Pteridophytes. xii, 12, O.-D. Bryophytes, Ja.-Mar. Research in Morphology. —? 48. Research in Taxonomy. —? 48. Ecology, with ref. to local plant societies. xii, 24, Ap.-S.

JACQUES LOEB, Assoc. Prof. of Physiol. M.D., Strasburg, '84; Asst. in Physiol., Würzburg, '86-8; Asst. in Physiol., Strasburg, '81-'90; Assoc. in Biology, Bryn Mawr, '91-2.
 Gen. Physiol. of Animals and Plants, Nerves and Muscles. iv, 12, Jul.-S. Lab. work in Gen. Physiol. ix, 6, Jul.-Au.
 Physiol. of Respiration, Circulation, Heat. iv, 12, Ja.-Mar. Lab. ix, 6, F.-Mar.
 Physiol. of Cent. Nerv. Syst. and Sense Organs. iv, 12, Ap.-Jun. Lab. ix, 6, My.-Jun.
 Seminar. i, 36, Jul.-S., Ja.-Jun.
 Research. xxx, 36, Jul.-S., Ja.-Jun.

DAVID J. LINGLE, Instr. in Physiol.

B.S., Chicago, '83; Asst. in Science, Beloit, '86-7; Asst. Prof. Biol., Tulane, '89-'90; Fel., Johns Hopkins, '91-2, and Ph.D., '92.
 Adv. Physiol. ix, 36, O.-Jun.
 Physiol. of Digestion, and Secretion. iv, 12, O.-Ja.

ALBERT C. EYCLESHYMER, Tutor in Anatomy.

Asst. in Animal Morphol., Mich., '89, and Botany, '90; Asst. to Dir. Allis Lake Lab., '90-1; S.B., Mich., '91; Fel. in Biol., Princeton, '91; Fel. in Morphol., Clark, '91-2; Fel. in Anat., Chicago, '92-3; Asst., '93-5, and Ph.D., '94.

Anatomical Methods. viii, 6, Jul.-Au., also O.-N.
 Histological Methods. viii, 6, Au.-S., also N.-D.
 Els. of Histol. viii, 24, Ja.-Jun.
 Mammalian Anat. viii-xvi, 24, Ja.-Jun.

CLARK.

23 Graduate Students, 1896-7.

Two Fel., \$600 each, two \$400 each; two Schools. \$200 each, two \$100 each. Lab. open daily from 8 to 6. Special attention to individual work.

CLIFTON F. HODGE, Asst. Prof. of Physiology and Neurology.

A.B., Ripon Col., '82; Fel., Johns Hopkins, '88-9, and Ph.D., '89; Fel. in Physiology and Asst. in Neurology, Clark, '89-91; Instr. in Biology, Wis., '91-2.
 Comp. Study of Nervous Systems and Sense Organs. i, 17, O.-Ja.
 General Biology (adv). Lab. i, 6, Ja.-F.
 Seminary. i, 35.
 Physiology of Muscle and Nerve. i, 17, and lab. daily, O.-Ja.
 Embryology and Growth of the Human Brain and Sense Organs. i, 6, My.-Jun.
 Practical Histology of the Nervous System. Lab. daily, 35.
 Journal Club. Weekly.

COLUMBIA.

28 Graduate Students, 1896-7.

Investigators' rooms, Marine Biolog. Lab., Wood's Holl. Annual biological expedition to Puget Sound. Herbarium of about 500,000 spec., Torrey Coll. Botan. lib. 3,700 vols., 5,000 pamphlets. Museum of human and comparative anatomy. Access by agreement to Am. Museum of Nat. Hist. Bacteriological and physiological labs.

HENRY F. OSBORN, Prof. of Zoölogy.

A.B., Princeton, '77, and Sc.D., '81; Curator Invert. Palæontol., Am. Museum of Nat. Hist.
 Comp. Zoölogy. vi, 30. (With Prof. Wilson.)
 Morphol. of Mammals. vi, 30.
 Biology (adv). xii, 30.
 Seminar. i, 30.
 Vertebrate Organogeny. Lects. and lab., v, 14, F.-Jun. (With Dr. Dean.)

Columbia — Continued.

EDMUND B. WILSON, Prof. of Invertebrate Zoölogy.

Asst. in Zoölogy, Yale, '78-9; Asst. in Biol., Johns Hopkins, '81-2, and Ph.D., '82; Lect. in Biol., Williams, '83-4; Lect., Mass. Inst. Tech., '84-5; and Prof. Biol., Bryn Mawr, '85-91.

Comp. Zoöl. vi, 30.

Cellular Biology. v, 14, F.-Jun.

Special and Experimental Embryology. i, 14, F.-Jun.

Anat., '71-5; Adj. Lect. on Psychol. and Hygiene, '75-6; Adj. Prof., '76-83; Prof., '83-pr.

*Comp. Physiology. iv-vi, 30. (With Prof. Lee and Dr. Cunningham.)

Lab. Research. — ? (With Prof. Lee and Dr. Cunningham.)

BASHFORD DEAN, Adj. Prof. of Zoölogy.

Ph. D., Columbia, '90.

Comp. Embryology. vi, 16, O.-F.

Morphology of Fishes. vi, 14, F.-Jun. Embryology of Fishes. i, 14, F.-Jun.

FREDERICK S. LEE, Adj. Prof. and Demonstrator of Physiology.

General Physiology. i, 30.

Lab. courses. v, 30.

GEORGE S. HUNTINGTON, Prof. of Anatomy.

A.B., Yale; M.D., Columbia, '84; Asst. Dem. in Anat., same, '86-9; Lect., '89-'90, and Prof. of Anatomy, '90.

Lab. courses in Animal Morphol., Carpus, Respiratory Apparatus, Nervous System, Myology, Auditory Apparatus, Urino-Genital System, Cranial Topography. — ? Comp. Vertebrate Morphology. Lects. — ?

T. MITCHELL PRUDDEN, Prof. of Pathology.

Bacteriology (adv). — ? (With Dr. Cheesman.)

TIMOTHY M. CHEESMAN, Instr. in Bacteriology.

A.B., Columbia, '74, A.M., '77, and M.D., '78; Instr., '93.

Preparation, Staining, Measurements, etc., of Bacteria. — ?

O. S. STRONG, Tutor in Comp. Neurology.

A.B., Princeton, '86; Ph.D., Columbia, '92; Tutor, Columbia, '93.

Comp. Neurology. iii, 30.

CARLETON C. CURTIS, Tutor in Botany.

A.M., Columbia, '92; Ph.D., Syracuse, '93.

Adv. Plant Anatomy. Lab. iv, 30.

JOHN G. CURTIS, Prof. of Physiology.

A.B., Harvard, '66, and A.M., '69; Asst. Demonstrator, Columbia, '70-1; Dem. in

CORNELL.

21 Graduate Students, 1896-7.

Herbar. contains 15,000 spec. Insectary of Agricult. Exper. Station afford facilities for investigating life hist. of insects. Special feature of Zoöl. Museum is extensive series of human and animal brains. 1 Fel. \$500, and 1 Grad. Schol. assigned to Depts. of Physiol., Vertebrate Zoölogy and Entomol., Gen. Invert. Zoöl. Also 1 Fel. \$500, and 1 Grad. Schol. \$300, assigned to Depts. of Botany and Geology.

BURT G. WILDER, Prof. of Physiol., Vert. Zoölogy and Neurology.

B.S., Harv., '62; M.D., same, '66; Asst. in Comp. Anat., same, '66-8; Prof., Cornell, '68.

*Neurology. iii, 9, Ap.-Jun.

*Adv. Neurology. Daily, 32. (With Dr. Stroud.)

*Comp. Anatomy. ii-iii, 11, Ja.-Mar.

*Vertebrate Zoölogy. iii, and lab. ii, 11, Ja.-Mar.

Physiol. Anatomy. ii-iii, 12, O.-D. (With Dr. Stroud.)

Syst. and Econ. Zoöl. ii-iii, 32. (With Dr. Stroud.)

Research and Thesis work. Daily, 32. (With Dr. Stroud.)

Seminary. i, 32.

JOHN H. COMSTOCK, Prof. of Entomol. and Gen. Invert. Zoöl.

B.S., '74; Instr. in Entomol., same, '73-7; Asst. Prof., '77-82; U. S. Entomol., '79-81; also Prof. of Entomol., Leland Stanford.

*Insect Anat., Life Hist., and Classifica. Lab. xxv, 21, O.-D.; also Ap.-Jun.

*Entomol. Lects. iii, 9, Ap.-Jun.

*Entomol. 3 lects., field and lab., 10, Jun.-S.

*Invert. Zoöl. Lab. —? 21, O.-D.; also Ap.-Jun. (With Mr. MacGillivray.)

SIMON H. GAGE, Prof. of Microscopy, Histol., and Embryol.

B.S., Cornell, '77; Instr. in Microscopy and Pract. Physiol., same, '78-81.

*Microscope and Micros. Methods. v, 6, O.-N.

Methods and Els. Embryol. v, 9, Ap.-Jun.

*Vertebrate Histol. v, 17, N.-Mar.

*Vert. Histol. Lab. daily, 32.

*Adv. Microscopy. ii, 9, Ap.-Jun. Sem. Micros. Histol. and Embryol. i, 32.

GEORGE F. ATKINSON, Prof. of Botany.

Ph.B., Cornell, '85; Prof. of Entomol., Univ. of N. Car., '85-8; Prof. of Botany and Zoölogy, Univ. of So. Car., '88-9; Alabama Polytechnic Inst., '89-'92; Asst. Prof. of Cryptogamic Bot., Cornell, '92-3; Assoc. Prof. Botany, '93-6.

*Comp. Morphology and Embryology of Plants. iii, 32.

*Mycology. iii, 32.

*Algology. iii, 32.

*Research in Embryology, Mycology, Ecology, etc. —? 32.

*Seminary. i, 32.

WILLARD W. ROWLEE, Asst. Prof. of Botany.

B.L., Cornell, '88; Sc.D., same, '93; Asst. in Bot., Agricult. Exper. Station; Instr. in Bot.

Special Morphology of Higher Plants. —? 32.

*Systematic Botany. iii, 32.

*Comp. Histology. iii, 32. (With Mr. Wiegand.)

*Special Investigations. —? 32. (With Mr. Wiegand.)

E. J. DURAND, Instr. in Botany.

A.B., Cornell, '93, and Sc.D., '95.

Embryology, Mycology, etc. —? 32.

Taxonomy of the Pteridophytes and Bryophytes. iii, 32.

P. A. FISH, Asst. Prof. of Comp. Physiology and Pharmacology.

B.S., Cornell, '90, and D.Sc., '94; D.V.S., National Veterinary College, '96; Instr. in Physiol., Vert. Zoöl. and Neurol., Cornell, '90-5; Instr., Marine Biol. Lab., '91-5; Asst. in Division of Animal Pathol., Washington, D. C., '95-6.

Cornell—Continued.

- *Comp. Physiol. Lects. and demonstrations. ii, 32.
- *Physiol. Lab. ii, II, Ja.-Mar.
- *Pharmacology. Lects. and recitations. i, 32.
- *Lab. in Pharmacy. ii, 12, O.-D.

GRANT S. HOPKINS, Asst. Prof. of Veterinary Anat. and Anatom. Methods.

B.S., Cornell, '89, and Sc.D., '93.

- *Anat. Methods and Gross Anat. Lab. and lects., iii, 12, O.-D.
- *Adv. Anat. Lab. and lects., iii, Ja.-Mar.
- *Human Anat. Research and lab. —?
- 32.
- *Veterinary Anat. Lects. and lab. —? 32.

B. B. STROUD, Instr. in Physiology, Vertebrate Zoölogy, and Neurology.

B.S., Cornell, '91, and Sc.D., '94.

- *Histology of Nervous System. iii, 9, Ap.-Jun.
- *Vertebrate Zoölogy. ii, II, Ja.-Mar. (With Dr. Wilder.)
- *Neurology. ii, 9, Ap.-Jun. (With Dr. Wilder.)

B. F. KINGSBURY, Instr. in Microscopic Methods, Histology and Embryology.

A.B., Buchtel, '93; M.S., Cornell, '94, and Ph.D., '95.

Cytology. ii, 9, Ap.-Jun.

LIBERTY H. BAILEY, Prof. of Gen. and Exper. Horticulture.

B.S. and M.S., Mich. Agricult. Col.

*Organic Evolution. iii, 12, O.-D.

*Botany of Cultivated Plants. i, II, Ja.-Mar.

HARVARD.

27 Graduate Students, 1896-7.

Museum Comp. Zoölogy, founded by Louis Agassiz, 1859 (Alexander Agassiz, curator), has collections, under the charge of museum ass'ts., and available for scientific study. Lib. of 25,000 vols. and 12,500 pamphlets on Zoölogy and Paleontology. Humboldt Fund maintains one or more students at Museum, Newport Marine Lab., or Woods Hole, U. S. F. C. Stat. Investigations are published in the Bull. Mus. Comp. Zoöl. Botanic garden of 7 acres offers facilities for investigation. Herbarium of over 200,000 species, includ. types of Synoptical Flora of N. A. Bot. lib. at Herbar. of over 9,000 vols. Bot. Mus., incl. Blaschka glass models. Extensive cryptogamic herb. Zoölogical and Botanical Clubs. Schol. of \$250, open to students in Zoöl., also a table of Naples Zoöl. Stat.

GEORGE L. GOODALE, Prof. of Natural History and Dir. of the Botanic Garden.

A.B., Amherst, '60; M.D., Harv., '63; A.M. (hon.), Amherst, '66, and Bowd., '69; M.D., Bowd., '63; LL.D., Amherst, '90, and Bowd., '94.

- *[Syst. and Economic Botany. iii, 30.] Phanerogams. Exper. Veg. Physiol. Syst. Botany. Economic and Med. Botany. Research. —?

WILLIAM G. FARLOW, Prof. of Cryptogamic Botany.

A.B., Harv., '66, A.M., '69, and M.D., '70.

- *Cryptogamic Botany. iii, 15, F.-Jun. (With Dr. Richards.) Structure and Devel. of Cryptogams. Research. —? (With Dr. Richards.)

HERBERT L. JONES, Instr. in Botany.

A.B., Denison, '86, and A.M., '87; A.B., Harv., '92, and A.M., '93.

- *Morphol., Histol., and Physiol. of Flowering Plants. iii, 30.

EDWARD L. MARK, Prof. of Anatomy.

A.B., Mich., '71; Ph.D., Leipzig, '76; Instr. Math., Mich., '71-2; Instr. Zoöl., Harv., '77-83; Asst. Prof., '83-6.

Anat. and Devel. of Vertebrates and Invertebrates. Research. —?

*Microscop. Anatomy. iii, 15, O.-Ja.
(With W. M. Woodworth, Ph.D.)

*Embryology of Vertebrates. iii, 15,
F.-Jun. (With an Asst.)

CHARLES B. DAVENPORT, Instr. in Zoölogy.

S.B., Brooklyn Polytech. and Col. Inst., '86; A.B., Harv., '89; Ph.D., same, '92.

*Exper. Morphol. Ontogenesis. ii, 30.

*[Exper. Morphol. Phylogenesis. ii, 30.]

GEORGE H. PARKER, Instr. in Zoölogy.

S.B., Harv., '87; Sc.D., same, '91; Biologist Mass. State Bd. of Health, '89-'90; Instr. Zool., Harv., '88-'91.

*Nervous System and its Terminal Organs. Sense Organs. iii, 15, O.-Ja.

*[Nervous System and its Terminal Organs. Central Nervous Organs and Terminal Organs of Efferent Nerves. iii, 15, O.-Ja.]

*Comp. Anat. of Vertebrates. iii, 30.
(With an Asst.)

JOHNS HOPKINS.

17 Graduate Students, 1896-7.

Marine Lab. in Zool. is open part of the year. Students have access to Capt. J. D. Smith's private herbar. of 78,000 sheets, esp. flora U. S. and Am. tropics; also to the Schimper Coll. Europ. phanerogams and Fitzgerald Coll. mosses. Journal Club meets weekly. Adam T. Bruce Rel. in Zool.

W. K. BROOKS, Prof. of Zool. and Dir. Chesapeake Zool. Lab.

A.B., Williams, '70; Ph.D., Harvard, '75; LL.D., Williams, '93.

Princ. of Zool. iii, 12, Ja.-Ap.
Adv. lectures in Zool. by instructors and fellows. i, 12, Ja.-Ap.

Marine Zool. v, 12, Ap.-Jul.
Zool. Seminary. i, 20, O.-Ap.

Readings in Zool. i, 30.

Adv. lab. work in Zool. — ?

W. H. HOWELL, Prof. of Physiology.

A.B., Johns Hopkins, '81; Fellow, '82-4; Ph.D., '84; Lect. and Prof. Physiol. and Histol., Mich., '89-'92; M.D., Mich., '90; Assoc. Prof. Physiol., Harv., '92-3.

Animal Physiol. Lects. iv, lab. v-xii, 30.

Physiol. Seminary. i, 30.

Physiol. Journal Club. i, 30.

Adv. lab. work in Physiol. — ?

J. E. HUMPHREY, Lecturer in Botany.

S.B., Harvard, '86, and Sc.D., '92.

Comp. Morphol. of Plants. Lects. ii, lab. vi-xii, 30.

Botanical Seminary. i, 20.

Adv. lab. work in Botany. — ?

LELAND STANFORD, JR.

15 Graduate Students, 1896-7.

Hopkins Lab. of Nat. Hist., located at Pacific Grove, on the Bay of Monterey, is a branch of the biol. work.

OLIVER P. JENKINS, Prof. of Physiol. and Histol.

A.B., Moore's Hill Col., '69, and A.M., '72; M.S., Indiana, '86, and Ph.D., '89; Prof. of Natural Science, Moore's Hill, '76-'82; Prof. Biology, De Pauw, '86-'91.

*Special Courses in Physiol. (adv). ii-v, 32. (With Mr. Greene.)

Adv. Physiol. and Histol. Research. — ? (With Prof. McFarland and Mr. Greene.)

*Journal Club. i, 32.

Sem. in Physiol. and Histol. ii, 32.
(With Mr. Greene and Prof. McFarland.)

J. H. COMSTOCK, Prof. of Entomology.

B.S., Cornell, '74; Instr. in Entomology, '73-7, Asst. Prof., '77-'82; U. S. Entomologist, at Washington, '79-'81; Prof. of Entomology and Gen. Invert. Zoölogy, Cornell, since '82.

*[Morphology and Classification of Coccidæ. iii, Ja.-Mar.]

Leland Stanford, Jr.—Continued.

CHARLES H. GILBERT, Prof. of Zoöl.

B.S., Butler, '79; M.S., Indiana, '82, and Ph.D., '83; Asst. in Nat. Sci. and Mod. Lang., Indiana, '80-4; Prof. of Nat. Hist., Cincinnati, '84-8; Prof. of Zoölogy, Indiana, '88-91; Asst. to U. S. Fish Commission, '86-91.

Adv. Research. —?

*Adv. Ichthyology. iii, 32.

DOUGLAS H. CAMPBELL, Prof. of Bot.

Ph.M., Michigan, '82, and Ph.D., '86; Prof. of Botany, Indiana, '88-91.

Adv. work in Gen. Botany. —?

WILLIAM R. DUDLEY, Prof. of Botany.

B.S., Cornell, '74, and M.S., '76; Instr. in Botany, Cornell, '72-6; Asst. Prof., '76-92.

Adv. work in Biol. of Spermaphytes and Fungi. v, 32.

VERNON L. KELLOGG, Assoc. Prof. of Entomology.

B.S., Kansas, '89, and M.S., '92; Asst. Prof. Entomology, Kansas, '92-3; Assoc. Prof., '93-4.

Adv. lab. work. ii-v, 32.

GEORGE C. PRICE, Asst. Prof. of Zoöl.

B.S., De Pauw, '90.

*Adv. Embryology. ii, 32.

CHARLES W. GREENE, Instr. in Physiol.

A.B., L. S. J. U., '92; A.M., same, '93.

*Blood and Circulation (adv.). iii, 14, S.-D.

FRANK M. MCFARLAND, Asst. Prof. of Histology.

Ph.B., De Pauw, '89; A.M., Stanford, '93; Asst. in Biology, De Pauw, '88-9; Prof. of Biology, Olivet, '89-92; Ph.D., Würzburg, '96.

*Special Courses in Histology and Cell Morphology. ii-v, 14, S.-D.

*Cellular Phenomena of Reproduction. ii, 18, Ja.-My.

MICHIGAN.

14 Graduate Students, 1896-7.

VOLNEY M. SPALDING, Prof. of Bot.

A.B., Michigan, '73; Ph.D., Leipzig, '94.

*Morphol. of Fungi. iii-v, 17, O.-F.

*Morphol. of Phanerogams. iii-v, 17, F.-Jun.

Original work in Morphology and Classification. —?

F. C. NEWCOMBE, Asst. Prof. of Bot.

B.S., Michigan, '90; Instr. in Botany, same, '90-2; Ph.D., Leipzig, '94.

*Cell Morphol. and Physiol. iii-v, 17, O.-F.

*Vegetable Physiol. iii-v, 17, F.-Jun. Original work in Physiology. —?

FANNY L. LANGDON, Asst. in Botany.

B.S., Michigan, '96.

Morphol. of Phanerogams. iii, 17, F.-Jun.

JACOB E. REIGHARD, Prof. of Zoölogy.

Ph.B., Mich., '82; Instr. in Zoöl., same, '86-7; Act. Asst. Prof. Zoöl., '87-8; Asst. Prof., '89; Dir. Scientific Work, Mich. Fish Com., since '89.

*Comp. Embryology and Anatomy of Vertebrates. v, 34.

Current Lit. of Zoölogy. i, 34.

Original work in Zoölogy. —?

Field Club Work. iii, 17, F.-Jun. (With Prof. Worcester and Dr. Lillie.)

DEAN C. WORCESTER, Asst. Prof. of Zoölogy and Curator of Zoöl. Coll.

A.B., Mich., '87; Asst. in Botany, '87-90.

Study of Special Groups. —?

FRANK R. LILLIE, Instr. in Invert. Zoöl.

A.B., Toronto, '91; Reader in Embryology, Chicago, '93-4, and Ph.D., '94; Instr. Marine Biol. Station, Wood's Hole, '94-5.

*Invert. Morphol. iii, 34.

—, Asst. in Zoöl. Lab.

Mammalian Anat. v, 34.

MINNESOTA.

Animal Biology, 7; Botany, 11; — Graduate Students, 1896-7.

Herbarium of 200,000 specimens. Bot. Lib. 2,400 vols. and 4,000 pams. Pub. quarterly "Minn. Bot. Studies."

HENRY F. NACHTRIEB, Prof. of Animal Biology.

B.S., Minn., '82; Fel. Biology and Asst. Bio. Lab., Johns Hopkins, '82-4; State Zoologist of Geol. and Nat. Hist. Survey.

Research in Vert. and Invert. Embryol. and Morphol. — ? 36.

Individual lab. work directed. — 36.

Journal Club. i, 36.

Philosophical Zoöl. Lects. — ?

O. W. OESTLUND, Asst. in Animal Biology.

B.A., Augustana Col., '79, and A.M., '87.

Entomology. iv, 36.

CONWAY MACMILLAN, Prof. of Bot.

A.B., Univ. of Neb., '85; Asst. Geologist, Univ. of Neb., '85-6; A.M., '86; Entomologist, U. S. Agric. Exper. Station, Lincoln, Neb., '86-7; Instr. in Botany, Minn., '87; Asst. Prof. of Botany, '90; State Botanist, Geol. and Nat. Hist. Survey.

Comp. Gametophytic Anatomy and Embryology. iv, 12, S.-N.

Comp. Sporophytic Anatomy and Embryology. iv, 24, N.-Jun.

Phytodynamics and Ecology. iv, 12, S.-N.

Phytocytology, Structural and Dynamic. iv, 36.

Experimental Embryology and Organogeny. iv, 36.

Research in some selected line. iv, 36.

Special Plant Morphology and Embryology. iv, 36.

D. T. MACDOUGAL, Asst. Prof. of Bot.

B.S., Purdue, '90, and M.S., '91; A.M., De Pauw, '93; Instr. in Bot., Purdue, '90-2; Agent Bot. Div. U. S. Dept. of Agric., '91-2; Ph.D., Purdue, '97.

*Special Problems in Plant Physiology. iv, 36.

Irritability. Directive and Formative Influ. of External Factors. iv, 36.

A. A. HELLER, Instr. in Bot.

A.B., Franklin and Marshall, '92; Field Agt. Div. of Bot. U. S. Dept. of Agric., '92.

Taxonomy of Spermatophyta. iv, 36.

NORTHWESTERN.

5 Graduate Students, 1896-7.

1 Fellowship \$400.

WILLIAM A. LOCY, Prof. of Zoöl.

B.S., Michigan, '81, and M.S., '84; Fellow, Harvard, '84-5; Ph.D., Chicago, '94.

*Topics of investigation in Animal Morphology (intro. to orig. research). v, 36, and x, 36.

Research. Independent Problems in Animal Morphology and Neurology. x, 36, and xv, 36.

CHARLES B. ATWELL, Prof. of Bot.

Ph.B., Syracuse, '79, and Ph.M., '81; Prof. in Biology, Northwestern, '91-4

*Special Problems in Botany. ii, 36.

*Botanical Club. i, 36.

PENNSYLVANIA.

14 Graduate Students, 1896-7.

Heyden and Leidy Libs. of Geol., Palæontol., Zoöl. and Bot. 2,000 vols. Biol. Hall has spec. labs. for Grad. work. Wistar Inst. of Anat. and Biol. with its Colls. is entirely devoted to Grad. work. Botan. Gardens contain about 3,000 native and exotic plants. Complete coll. of veg. products used in U. S. Pharmacopæia. 1 Fel. \$6000; 1 Schol. \$100.

Pennsylvania — *Continued.*

HORACE JAYNE, Prof. of Zoöl. and Dir. Wistar Inst. of Anat. and Biol.

A.B., Univ. of Pa., '79; M.D., same, '82; Asst. Instr. in Biol., '83; Prof. Vert. Morphol., '84; Dean of Col., '89-'94; Ph.D., Franklin and Marshall, '93.

Human Anat. —? 30.

Mammal. Osteol. —? 30.

JOHN M. MACFARLANE, Prof. of Bot.

B.S., Edinburgh, '79; Instr. in Bot., Royal Dick Col., '81; Univ. Asst. Lectr. (Edin.), and Cur. Herbar., Royal Bot. Garden, '83; Ass't. Prof., Edinburgh, '89.

Plant Growth and Reproduct. v, 30.

Comp. Morphol. of Flowering Plants. v, 30.

JOHN W. HARSHBERGER, Instr. in Bot., Gen. Biol., and Zoöl.

A.B., Univ. of Pa., '88; B.S., '92, and Ph.D., '93; Instr. in Bot., same, '90-7.

Hist. of Bot. and Ethnobotany. iii, 15, O.-F.

Plant Distribution. v, 15, F.-My.

HOBART C. PORTER, Asst. Instr. in Bot. Morphol. and Taxon. of Algae. v, 30.

EDWARD D. COPE, Prof. of Zoöl. and Comp. Anat.

A.M., Haverford; Ph.D., Heidelberg; Prof. Nat. Sci., Haverford, '64-7; Prof. Geol., Univ. of Pa., '89-'93; Prof. Zoöl. and Comp. Anat., '93-6.

Comp. Anat. of Vertebrates. iii, 30.

Lab. Gen. Taxonomy. —? 30.

Lab. Gen. Organog. —? 30.

Lab. Gen. Palaeontol. —? 30.

EDWIN G. CONKLIN, Prof. of Comp. Embryol.

B.S., Ohio Wesleyan, '85; A.B., '86, and A.M., '89; Asst., Biol. Lab., Johns Hopkins, '89; Fel. Biol., same '90, and Ph.D., '92; Prof. Biol., Ohio Wesleyan, '91-4; Prof. Zoöl., same, '94-6.

Comp. Embryol. vii, 30.
Comp. Histol. vii, 30.

PROFS. COPE, MACFARLANE AND CONKLIN.

Evolution of Plants and Animals. i, 30.

PROF. CONKLIN, DR. MOORE and DR. CALVERT.

Invertebrate Zoöl. iii, 30.
Biol. Club. Fort., 30.

PRINCETON.

4 Graduate Students, 1896-7.

z Fel. \$400. Besides enumerated courses, a special research course in Biol., varying to meet needs of students, is offered to Graduates.

GEORGE MACCOSKIE, Prof. of Biol.

A.M., Queen's College, Belfast, '58; LL.D., London, '71; Sc.D., Queen's College, '82.

*Comp. Osteology. ii, 18, S.-Ja.

*Physiology. ii, 18, S.-Ja.

WILLIAM LIBBEY [see 17].

*Normal Histology. ii, 18, F.-My.

*Pract. Histology. ii, 18, F.-My.

W. B. SCOTT [see 17].

*Palaeontology. iv, 18, F.-My.

C. F. MCCLURE, Asst. Prof. of Biol.

A.B., Princeton, '88, and A.M., '92.

*Embryology. ii, 18, F.-My.

*Mammalian Anat. ii, 18, S.-Ja.

RADCLIFFE.

6 Graduate Students, 1896-7.

G. L. GOODALE.

*Systematic and Economic Botany.

Lab. ix, and occasional lects., 30.

Economic Botany (adv.). i, 30.

H. L. JONES.

*Histology and Physiology. iii, and lab. vi, 30. (With an Asst.)

DR. H. M. RICHARDS.

*Cryptogamic Botany. iii, and lab., 30.

E. L. MARK.

*Microscop. Anat. iii, and lab., 15, O.-Ja. (With an Asst.)

*Embryol. of Vertebrates. iii, and lab., 15, F.-Jun. (With an Asst.)

Research (adv). —?

G. H. PARKER.

*Comp. Anat. of Vertebrates. iii, and lab., 30. (With an Asst.)

*Nervous System and its Terminal Organs. Sense Organs. iii, 15, O.-Ja.

*[Nervous System and its Terminal Organs. Central Nervous Organs and Terminal Organs of Efferent Nerves. iii, 15, O.-Ja.]

C. B. DAVENPORT.

*Exper. Morphology. Ontogeny. iii, and lab., 30.

*[Exper. Morphology. Phylogeny. iii, and lab., 30.]

VANDERBILT.

5 Graduate Students, 1896-7.

JAMES M. SAFFORD, Prof. of Nat. Hist. and Geol.

A.B., Ohio Univ., '42; M.D., Ph.D., Yale, '44; State Geologist of Tenn., '54-'97.

PAUL M. JONES, Instr. in Nat. Hist. and Geol.

B.S., Vanderbilt, '89; M.S., '91, and Sc.D., '92.

Embryology (Man and Mammals). iii, 32.

Cytology. iii, 32.

WELLESLEY.

2 Graduate Students, 1896-7.

SUSAN M. HALLOWELL, Prof. of Bot.

A.M., Colby, '75.

*Vegetable Histol. and Physiol. iii, 35.

*Vegetable Embryol. and other special topics. iii, 35.

CLARA E. CUMMINGS, Assoc. Prof. of Cryptogamic Botany.

*Cryptogamic Botany. iii, 35.

*Cryptogamic Bot. (adv). iii, 35.

GRACE E. COOLEY, Assoc. Prof. of Botany.

A.M., Brown, '93; Ph.D., Zürich, '94.

*Medical Botany. iii, 35.

MARY A. WILLCOX, Prof. of Zoöl.

*[Philosophical Zoöl. iii, 35.]

AGNES CLAYPOLE, Instr. in Zoöl.

Ph.B., Buchtel, '92; M.S., Cornell, '94.

*Anatomy of the Cat. iii, 17, S.-Ja.

*Embryology of the Chick. iii, 17, F.-Jun.

EDITH CLAYPOLE, Instr. in Physiol.

Ph.B., Buchtel, '92; M.S., Cornell, '93.

*Animal Histol. and Histol. Methods. iii, 35.

WESTERN RESERVE.

3 Graduate Students, 1896-7.

F. H. HERRICK, Prof. of Biology.

A.B., Dartmouth, '81; Ph.D., Johns Hopkins, '88; Instr. in Biology, Adelbert, '88-'91; Prof. same, '91.

*Vertebrate Embryol. v, 17, F.-Jun.

*Botany, or Vegetable Morphol. v, 17, F.-Jun.

*Mammalian Anatomy. v, 16, S.-Ja.

Western Reserve—Continued.

Animal Physiol. and Histol. v, 17, F.—Jun.
 *Animal Morphol. i, and lab. iv, 16, S.—Ja.
 Animal Morphology. v, 16, S.—Ja.

CHARLES R. BARNES, Prof. of Botany.

A.B., Hanover, '77, and Ph.D., '86; Prof. Bot. and Geol., Purdue, '80—7.
 Vegetable Organogeny and Embryology. x, 18, F.—Jun.
 Vegetable Physiology. x, 36.
 Bryology. x, or xv, 36.

WISCONSIN.

4 Graduate Students, 1896-7.

EDWARD A. BIRGE, Prof. of Zoölogy.

A.B., Williams, '73; Instr. in Nat. Hist., Wisconsin, '76-9; Ph.D., Harvard, '78.
 Adv. Invert. Zoöl., and special work in lake life. x, 36.

WILLIAM S. MARSHALL, Asst. Prof. of Biol.

A.B., Swarthmore, '88; Ph.D., Leipzig, '92.
 Invert. Embryology. x, 18, F.—Jun.
 Thesis Work in Invert. Zoöl. — ?
 (With Prof. Birge.)

WILLIAM S. MILLER, Asst. Prof. of Vertebrate Anatomy.

M.D., Yale, '79; Instr., Wis., '92.
 Adv. Histology. x, 18, F.—Jun.

HARRY L. RUSSELL, Prof. of Bacteriology.

B.S., Wisconsin, '88; Fel. in Biol., same, '88-'90; Ph.D., Johns Hopkins, '92; Fel. in Biol., Chicago, '92-3.
 *Gen. Bacteriology. x, 18, S.—F.
 Dairy Bacteriology. x, 18, S.—F., or F.—Jun.
 Agricult. Bacteriology. x, 18, S.—F.

WILLIAM D. FROST, Asst. in Bacteriology.

B.S., Minnesota, '93, and M.S., '94; Scholar in Bot., Minn., '93-4; Asst. in Bact. Lab. Minn. State Board of Health, '94-5.
 Adv. Bacteriology. x, 18, F.—Jun.
 (With Prof. Russell.)
 *Biol. of Water Supplies. x, 18, S.—F.

RODNEY H. TRUE, Asst. Prof. of Pharmacognosy.

Fellow in Bot., Wis., '90-2, and M.S., '92; Ph.D., Leipzig, '95.
 Microscopic Study of Powdered Drugs. — ? 36.
 *Physiol. of Plant Constituents. i, 18, F.—Jun.

YALE.

17 Graduate Students, 1896-7.

W. R. COE, Instr. in Biol.

Ph.B., Yale, '92, and Ph.D., '95.
 Cytology and Gen. Embryol. iv, 12, O.—D.

A. E. VERRILL, Prof. of Zoöl.

B.S., Harv., '64; A.M., Yale, '67; Prof. Comp. Anat. and Entomol., Wis.
 Zoölogy. Lab., recit., and lects., viii, 32.

S. I. SMITH, Prof. of Comp. Anat.

Ph.B., Yale, '67, and A.M., '87.

S. I. SMITH and W. R. COE.

*Anat. and Histol. (el). Lab. iv, 12, O.—D.
 *Comp. Anat. and Gen. Biol. Lab. vi, 20, Ja.—Jun.
 Comp. Anat. and Gen. Biol. (adv). Lab. 5 days per wk.

R. H. CHITTENDEN, Prof. of Physiol. Chem.

Ph.B., Yale, '75, and Ph.D., '80; Instr. Phys. Chem., same, '76-'82.

L. B. MENDEL, Instr. in Physiol. Chem.

A.B., Yale, '91, and Ph.D., '93.

R. H. CHITTENDEN AND L. B. MENDEL.

Physiol. Chem. (adv.). Lab. iv, daily, lects. and recit., iii-iv, 32.

Exper. Physiol. ii, 32.

Exper. Toxicol. ii, 12, Easter-June.

*Physiol. i, 32.

*Physiol. Chem. (el). iv, 20, Ja.-Jun.

A. W. EVANS, Instr. in Botany and Bacteriology.

Ph.B., Yale, '90, and M.D., '92.

*Botany. iii, 20, Ja.-Jun.

Gen. Morphology of Plants. ii, 32.

C. E. BEECHER, Asst. Prof. of Palæontol.

B.S., Mich., '78; Ph.D., Yale, '89.

Invert. Palæontology. Lab. iii, daily.

J. W. SEAVER, Assoc. Dir. of Gym.

A.B., Yale, '80, and M.D., '85.

*Physiology. i, 32.

W. G. ANDERSON, Assoc. Dir. of Gym.

M.D., West. Res., '83.

*Theory of Gymnastics. Hist., Means, Pedagogy. i, 32.

17. GEOLOGY AND GEOGRAPHY.

[Including Palæontology (in part), Lithology, and Mineralogy. See also 15 and 16.]

BARNARD.

o Graduate Students, 1896-7.

JAMES F. KEMP.

Petrology. iii, and lab. iv, 30.
Comp. Geol. ii, and lab. iv, 30.

GILBERT VAN INGEN.

Invertebrate Palæontology. ii, and lab. iv, 30.

CHARLES A. HOLICK.

Palæobotany. i, and lab. iv, 2 yrs.

BROWN.

z Graduate Student, 1896-7.

A. S. PACKARD [see 16].

*Geology. iii, 23, S.-Mar.

FREDERICK P. GORHAM [see 16].

*Economic Geology. ii, 10, Ap.-Jun.

BRYN MAWR.

z Graduate Students, 1896-7.

FLORENCE BASCOM, Lecturer in Geol.

A.B., L.B., Wisconsin, '82; B.Sc., '84, and A.M., '87; Ph.D., Johns Hopkins, '93; Asst. in Geol. and Instr. in Petrography, Ohio State Univ., '93-5.

Lects. on Mineralogy. ii, 30.

Lects. on Palæontology. i, 30.

*Lects. on Geology. iii, 30.
Lab. and Field Work. —?

CALIFORNIA.

8 Graduate Students, 1896-7.

Special opportunities offered for actual work in the field. z Fel. in Mineral., \$500.

JOSEPH LE CONTE, Prof. of Geol. and Natural History.

A.M., Georgia; M.D., New York; B.S., Harvard; LL.D., Georgia, Princeton.

Lects. on Mountain Structure and Origin. —?

California—Continued.

Organic and Quaternary Evolution in Geol. The Glacial Epoch in Cal. Genesis of Metalliferous Veins. —?

ANDREW C. LAWSON, Assoc. Prof. of Geol. and Mineral.

A.M., Toronto; Ph.D., Johns Hopkins.

Research in Inorganic Geol. —?

JOHN C. MERRIAM, Instr. in Palæontology.

Ph.D., München.

Research in Palæontology. —?

CHICAGO.

20 Graduate Students, 1896-7; and 13 in Summer Quarter, '96.

Geological Club meets weekly. Dept. located in Walker Museum. Has large collections, systematically arranged, in Geol. and Palæontol. 3 Fels.

THOMAS C. CHAMBERLIN, Head Prof. of Geology.

A.B., Beloit, '66, and A.M., '69; Ph.D., Michigan and Wisconsin, '82; Pres., Wisconsin, '87-'92; LL.D., Michigan, Beloit, and Columbian, '87.

*Principles and Methods of Geol. v-x, 18, O.-F.

*Seminar. Glacial Geol. v-x, 6, F.—Mar.

*Geol. Life Devel. v, 12, Ap.—Jun.

*Special Geol. v-x, 48. (With Prof. Salisbury.)

*Local Field Geol. v-x, 48. (With Prof. Salisbury.)

Professional Geol. lx, 12, Jul.—S.

Independent Field Work. lx, 12, Jul.—S.

General Geol. Seminar. i, 36, O.—Jun.

ROLLIN D. SALISBURY, Prof. of Geographic Geol.

Ph.B., Beloit, '81, and A.M., '84; Prof. Geology, same, '84-'91; Prof. Gen. and Geographic Geol., Wisconsin, '91-2.

*Geographic Geol. v-x, 12, O.-D.; also Jul.—Au.

*Lab. work in Geog. Geol. v, 6, N.—D.

*Structural Geol. and Continental Evolution. v-x, 12, Ja.—Mar.

*General Geol. v-x, 12, Ja.—Mar. Dynamic Geog. (adv). v-x, 6-12, Ja.—Mar.

*Field Class in Geol. lx, 4, Au.—S.

JOSEPH P. IDDINGS, Prof. of Petrology.

Ph.B., Sheffield Scientific School, '77; Asst. Geologist, U. S. Geog. Survey, '80-8; Geologist, '88-'92; Reinstate, '95.

Geomet. and Physical Crystallog. v, 18, O.-F.

Descrip. Mineral. v, 12, F.—My.

Petrology. v, 12, Ap.—Jun.

Petrography (adv). v-x, 36, O.—Jun.

Field Petrology. —?

CHARLES R. VANHISE, Non.-Res. Prof. of Pre-Cambrian Geol.

B. Met. E., Wisconsin, '79, and S. M., '82; Ph.D., same, '92; Prof. Geol., same, '88.

Pre-Cambrian Geol. v, and lab. v, 6, Ja.—F.

RICHARD A. F. PENROSE, JR., Prof. of Economic Geol.

A.B., Harv., '84, and Ph.D., '86; U. S. Geol. Survey, '84-6; Geol. Survey, Texas, '88-9; Geol. Survey, Arkansas, '89-'92.

Economic Geol. v, 12, Ja.—Mar.

Chem. of Ore Deposits. v, 12, Ja.—Mar.

WILLIAM H. HOLMES, Prof. of Archæologic and Graphic Geol.

Geologist, U. S. Geol. Survey, '80-9; Archæologist, U. S. Bureau Ethnology, '89-'93; Director, Field Columbian Museum, '94.

Anthropic Geol. ii, 12, Ap.—Jun.

Graphic Geol. ii, 12, Ap.—Jun.

STUART WELLER, Asst. in Palæont. Geol.

B.S., Cornell, '94; Asst. Missouri Geol. Survey, '90; Asst. U. S. Geol. Survey, '91; Asst. Palæontol., Cornell, '92-3; Asst. in Geol., same, '93-4; Asst. in Palæontol., Yale, '94-5.

Palæontologic Geol. Lab. xii-xxv, 12, Jul.-S.

Intro. to Palæontol. Geol. v, 12, O.-D.

Palæozoic Life. v, 12, Ja.-Mar.; Mesozoic Life, Ap.-Jun.

Special Palæontol. Geol. v-x, 36, O.-Jun.

OLIVER C. FARRINGTON, Professional Lecturer in Determinative Mineralogy.

B.S., Maine State Col., '81; M.S., same, '88; Asst. in Mineral. and Biol., Yale, '89-'91; Ph. D., Yale, '91; Asst., Dept. of Minerals, U. S. Nat. Museum, '93-4; Curator of Geol., Field Columbian Museum, '94.

Determinative Mineral. Lab. x, 6, My.-Jun.

COLUMBIA.

xi Graduate Students, 1896-7.

Geological museum of about 100,000 specimens. Study may be prosecuted in Am. Mus. of Nat. Hist. Mineralogical Coll. of 26,000 labelled spec.

JAMES F. KEMP, Prof. of Geology.

A.B., Amherst, '81; E.M., Columbia, '84; Asst. Prof., Cornell, '86-'91; Adj. Prof., Columbia, '91-2.

Economic Geology. iii, 30.
[Petrology. Lects. ii, lab. iv, 30.]
Comp. Geology. Lects. ii, lab. iv, 30.
(With Mr. Van Ingen.)

CHARLES A. HOLICK, Tutor in Geology.

Ph.B., Columbia, '79; Fellow in Geol., same, '90; Asst., '92; Tutor, '93; Librarian, N. Y. Acad. of Sci., '93; Ph.D., Columbian, '97.

Palæobotany. Lects. i, lab. iv, 2 yrs.

GILBERT VAN INGEN, Curator of Geological Coll.

Invertebrate Palæontology. Lects. ii, lab. iv, 30.

ALFRED J. MOSES, Adj. Prof. of Mineralogy.

E.M., Columbia, '82, and Ph.D., '90.

Crystallography. ii, 16, O.-F.

Descriptive and Determinative Mineralogy. Lects. ii, lab. iii, 14, F.-Jun.; also O.-F. (With Dr. Luquer.)

Minerals of Building Stones. Lects. ii, lab. ii, 30.

Math. Crystallography. —?

Mineralogy (adv). —?

Systematic Mineralogy. xx, 2 yrs.
(With Dr. Luquer.)

LEA MCI. LUQUER, Tutor in Mineralogy.

E.M., Columbia, '87, and Ph.D., '94.

Optical Mineralogy. Lab. xii, 1 yr., or vi, 2 yrs.

CORNELL.

6 Graduate Students, 1896-7.

Museum of Geol., Palæontol., and Mineral. comprises Jewett Coll. N. Y. State fossils, Newcomb Coll. of recent shells, Silliman Coll. of minerals, study collections of minerals and petrographical specimens. x Fel. \$500, and Grad. Schol. \$300, assigned to Depts. of Geol. and Botany.

RALPH S. TARR, Prof. of Dynamic Geol. and Physical Geog.

B.S., Harv., '91; Asst. in Geol., same, '90-1; Asst. Geol., Texas Geol. Surv., '89-'90, and U. S. Geol. Surv., '87-9, '91-2.

*Physical Geog. Lects. ii, 32.

*Phys. Geog. Lab. and field, i, 32.

*Seminary in Geol. and Phys. Geog. ii, 32.

*Geol. Invest. Lab. and field, i, 32.

*Geol. Lects. and lab., iii, 11, Ja.-Mar.

*Economic Geol. Lects. iii, 9, Ap.-Jun.

*Gen. Geol., esp. Dynamic. Lects. iii, 32.

*Glacial Geol. Lects. and excursions, iii, 12, Ap.-Jun.

Cornell—Continued.

GILBERT D. HARRIS, Asst. Prof. of Palæontol.

Ph.B., Cornell, '86; Asst. Palæontol., U. S. Geol. Surv., '88-'92; Tertiary Palæontol., Texas Geol. Surv., '92-4.

*Hist. Palæontology. Lects. ii, 12, O.-D.

*Conchology (el). Lects. and lab., iii, 20, Ja.-Jun.

Palæont. Illustration. i, 9, Ap.-Jun.

Research in Tertiary Invert. Palæontol. Lab. — ? 32.

ADAM C. GILL, Asst. Prof. of Mineral. and Petrog.

A.B., Amherst, '84; Ph.D., Munich, '93; Prof. of Math., Park Col., '84-6.

*Mineralogy. iii, 12, O.-D.

*Mineral. Lects. and lab., iii, 23, O.-Mar.

*Petrog. Lects. and lab., iii, 20, Ja.-Jun.

*Lithology. Lects. ii, 9, Ap.-Jun.

*Physical Crystallog. Lects. and lab., iii, 12, O.-D.

Mineral. and Petrog. Research. — ? 32.

Sem. in Mineral. and Crystallog. i, 11, Ja.-Mar.

HARVARD.

18 Graduate Students, 1896-7.

[Courses marked R are open to Radcliffe Graduate Students.]

Lab. of Geography, Geol., Mineral. and Palæontol. Mineralogical Museum. Geol. Conference meets weekly. Geol. and Geograph. excursion under var. instr. Orig. investigation for adv. students pursued through the year.

NATHANIEL S. SHALER, Prof. of Geology, and Dean of the Lawrence Scientific School.

S.B., Harv., '62, and Sc.D., '75.

*Gen. Palæontology. ii-iii, 30. (With Dr. Jackson.)

*Hist. Geology. i, 30. (With Dr. Jackson.)

Adv. Palæontology. Lab. Research.

— ? (With Dr. Jackson.)

*Economic Geology. Non-metalliferous products and water supply. ii-iii, 15, O.-Ja. (With Asst. Prof. Smyth.)

Geol. Invest. Field and lab. Research. — ? (With other instructors.)

WILLIAM M. DAVIS, Prof. of Physical Geography.

S.B., Harv., '69, and M.E., '71; Asst., Argentine Nat. Observ., Cordova, '70-3.

*[Physiography of U. S. iii, 15, F.-Jun.]

*Physiography of Europe. iii, 15, F.-Jun.

R)Physiography (adv). Research. i-ii, 30.

R)Meteorology (adv). Research. i-ii, 30.

JOHN E. WOLFF, Prof. of Petrography and Mineralogy, and Curator of Mineralogical Museum.

A.B., Harv., '79, and Ph.D., '89.

R)Mineralogical and Petrographical Research. Field and lab. — ? (With Dr. Palache.)

*Physical Crystallography. — ? F.-Jun. (With Dr. Palache.)

*Petrography. ii-iii, 30. (With an Asst.)

HENRY L. SMYTH, Asst. Prof. of Mining.

A.B., Harv., '83, and C.E., '85; Topographer, U. S. Geol. Survey.

*Pre-Cambrian Geology of N. Am. — ? F.-Jun.

*Mining Geology. iii, 30.

ROBERT T. JACKSON, Instr. in Palæontology.

S.B., Harv., '84, and Sc.D., '89.

*Invertebrate Paleontology. ii, 30.

ROBERT DEC. WARD, Instr. in Meteorology.

A.B., Harv., '89, and A.M., '93.

Climatology. iii, 15, F.-Jun.

[Special Climatology. iii, 15, F.-Jun.]

JAY B. WOODWORTH, Instr. in Geology.

S.B., Harv., '94.

*Glacial Geology. ii, 15, O.-Ja.

*Gen. Crit. Geology. ii-iii, 30. (With Mr. Woodman.)

THOMAS A. JAGGAR, JR., Instr. in Geology.

A.B., Harv., '93, and A.M., '94.

*Exper. and Dynamical Geology. ii, 15, O.-Ja.

Adv. Geol. Field Work. i, 30. (With Profs. Shaler, Davis, Wolff, and Smyth.)

CHARLES PALACHE, Instr. in Mineralogy.

B.S., Univ. of Cal., '91, and Ph.D., '94.

*Crystallography. —? O.-Ja.

JOHNS HOPKINS.

12 Graduate Students, 1896-7.

WILLIAM B. CLARK, Prof. of Organ. Geol.

A.B., Amherst, '84; Ph.D., Munich, '87; State Geol., Md.; Dir. Md. State Weather Service; Geol., U. S. Geol. Surv.

*Gen. Geol. Lects. iv, and lab. iii, 15, O.-Ja.

[Palaeontology. Lects. iii, and lab. v, 30.]

Hist. Geol. Lects. iii, and lab. v, 30.

HARRY F. REID, Assoc. Prof. of Geol. Physics.

A.B., Johns Hopkins, '80; Asst., same, '82-4; and Ph.D., '85; Prof. Math., Case Sch. App. Science, '86-8; Prof. Physics and Dynamical Geol. and Physiography, '88-'93.

*Dynamic Geol. iv, 15, F.-My.

Geol. Physics (adv). Lects. ii, and lab. ii, 15, F.-My.

EDWARD B. MATHEWS, Assoc. n Mineral. and Petrog.

A.B., Colby, '9x; Ph.D., Johns Hopkins, '94; Asst. U. S. Geol. Survey, '91-5; Instr. Mineral. and Petrog., Johns Hopkins, '94-5; Asst. Md. Geol. Survey.

Mineralogy. Lects. iv, and lab. v, 15, F.-My.

[Petrography. Lects. iii, and lab. v, 30.]

Metamorphism. Lects. ii, and lab. v, 30.

RUFUS M. BAGG, Asst. in Geol.

A.B., Amherst, '91; Ph.D., Johns Hopkins, '95; Asst. N. J. and Md. Geol. Survey.

Assists Dr. Clark in Palaeontol. Lab.

GROVE K. GILBERT, Lecturer.

A.B., Rochester, '62; Geologist Ohio Survey, '69-'71; Wheeler Survey, '71-4; Powell Survey, '74-9; U. S. Geol. Survey, '79.

Physiographic Geology. Lects. ii, 12, Ja.-Mar.

BAILEY WILLIS, Lecturer.

M.E., Columbia, '78, and C.E., '79; 10th Census Special Agent, '79-81; Geologist North. Transcon. Survey, '81-4; U. S. Geol. Survey, '84.

Stratigraphic and Structural Geol. Lects. ii, 12, Mar.-Jun.

— — — — —, Lecturer.

Principles of Geol. (George Huntingdon Williams Memorial Lectures.)

HERBERT G. GEER, Assoc. in Mechan. Eng.

Mechanical, Map, and Section Drawing. i, 30.

MICHIGAN.

1 Graduate Student, 1896-7.

ISRAEL C. RUSSELL, Prof. of Geol.

B.S., C.E., N.Y.U., '72, and M.S., same, '75; Asst. U.S. Transit of Venus Exp., '74-5; Asst. Prof. Geol., Columbia, '75-7; Asst. Geol., U.S. Surv. 100th Mer., '78; Asst. Geol., and Geol., U.S. Geol. Surv., '80-'92.

*Phys. and Glacial Geol. ii, 17, O.-F.

*Palæontol. Invest. ii-iii, 17, F.-Jun.

*Physical Geog. iii, 17, O.-F.

WM. H. PETTEE, Prof. of Mineral., Econ. Geol., and Mining Engineering.

A.B., Harvard, '61, and A.M., '64.

Adv. work in Mineralogy. —? 34.

MINNESOTA.

10 Graduate Students, 1896-7.

Geological Museum embraces colls. of Geol. Survey of the State and study colls. in Petrology and Palæontology, esp. in anc. eruptives and lower Palæozoic faunas of the northwestern States. The Geological Club meets weekly.

CHRISTOPHER W. HALL, Prof. of Geol. and Mineral., and Dean of Col. of Engin., Metallurgy and the Mechanic Arts.

A.B., Middlebury, '71, and A.M., '74.

Granitic Rocks of Minn. i, 36.

Pre-Cambrian Eruptives of Northeastern Minn. i, 36.

Lower Palæozoic Formations of Southeastern Minn. i, 36.

Local Glacial Phenomena. i, 36.

*Economic Geol. iv, 13, N.-Mar.

*Special Problems. iv, 13, Mar.-Jun.

CHARLES P. BERKEY, Instr. in Mineral.

B.S., Minn., '92, and M.S., '93.

Original Problems. Particular groups of Minerals studied. i, 36.

*General Mineralogy. iv, 25, S.-Mar.

*Phys. and Chem. Mineral. Optical Characters and Stauroscopic Determinations. iv, 13. Micro-Chem. Methods and Applica. iv, 13.

*Math. Crystallography. ii, 13, Mar.-Jun.

NEW YORK.

o Graduate Students, 1896-7.

JOHN J. STEVENSON, Prof. of Geology.

Ph.D., N.Y.U., '67; Asst. Ohio Geol. Survey, '71-4; U.S. Geol. Survey, '73-4, '78-'80; Asst. ad. Geol. Surv. Penn., '75-6, '81-2; LL.D., Col. N.J., '93.

*Economic Geology. iii, 30.

Principles of Geology. ii, 28.

Invert. Palæontology. vi, 28.

NORTHWESTERN.

o Graduate Students, 1896-7.

OLIVER MARCY, Prof. of Geol.

A.B., Wesleyan, '46, and A.M., '49; LL.D., Chicago, '73.

*Chartography, Glacial Geol., Penep- plains. ii, 36.

*Palæontology. ii, 36.

*Current Geol. Lit. i, 36.

Gen. Geol. Seminary. ii, 36.

A. R. CROOK, Prof. of Mineral. and Petrol.

A.B., Ohio Wesleyan, '87; Ph.D., Munich, '92; Prof. Nat. Hist., Wheaton Col., '92-3.

*Adv. investigation of rocks from special localities. iii, 36.

Phys. Crystallography. Optical, Thermal, Magnetic, Molecular, and Geometric Properties of Crystals. ii, 36. Field Geology. ii, 36.

PENNSYLVANIA.

16 Graduate Students, 1896-7.

AMOS P. BROWN, Prof. of Mineral. and Geol.

Histor. Geol. iv, 30.

Lithol. and Petrog. iii, 15, O.-F.

Physical Geol. i, 15, O.-F.

Chem. Geol. i, 15, F.-My.

Field Excursions. ii, 30.

Math. and Phys. Crystallog. iii, 15, O.-F.
 System. Mineral. iii, 30.
 Chem. and Synthet. Mineral. iii, 15, F.-My.

J. E. WOLFF and C. PALACHE.

*Phys. Crystallography, mainly Optical Mineral. and its Applica. Lects. and lab., iii, 15, F.-Jun.

PRINCETON.

2 Graduate Students, 1896-7.

WILLIAM LIBBEY, Prof. of Phys. Geog. and Histol., and Direc. Mus. Geol. and Archæol.

A.B., Princeton, '77, and Sc.D., '79.
 *Phys. Geog. ii, 18, F.-My.
 Relations of Phys. Geog. to Hist. of Mankind. i, 18, F.-My.

W. B. SCOTT, Prof. of Geol.

A.B., Princeton, '77; Ph.D., Heidelberg, '80.
 *Physical Geol. ii, 36.]
 *Hist. Geol. ii, 36.

J. E. WOLFF.

*Petrography. Lects. and lab., iii, 30.

VANDERBILT.

6 Graduate Students, 1896-7.

JAMES M. SAFFORD [see 16].

PAUL M. JONES [see 16].

Econ. Geology. iii, 32.
 Mineralogy. iii, 32.
 Palæontology. iii, 32.
 Special Applied Geol. iii, 32.
 Adv. Research. iii, 32.

RADCLIFFE.

2 Graduate Students, 1896-7.

[See Harvard Courses marked R.]

W. M. DAVIS.

*[Physiography of U. S. iii, 15, F.-Jun.
 *Physiography of Europe. iii, 15, F.-Jun.

J. B. WOODWORTH and MR. WOODMAN.
 *Gen. Critical Geol. ii-iii, 30.

R. DE C. WARD.

*Climatology. iii, 15, F.-Jun.

J. E. WOODMAN.

*Glacial Geol. ii, 15, F.-Jun.

C. PALACHE.

*Crystallography. Lab. and lects., iii, 15, O.-Ja.

WESTERN RESERVE.

1 Graduate Student, 1896-7.

H. P. CUSHING, Prof. of Geol.

Ph.B., Cornell, '82, and M.S., '85; Instr. in Geology and Chemistry, W. R. U., '92; Assoc. Prof. Geol., '93-5; Prof., '95.
 Descriptive Mineral. and Crystallography. v, 17, F.-Jun.
 *Determinative Mineral. iii, 16, S.-Ja.
 Petrography. —?
 Stratigraphical and Dynamical Geol. —?

WISCONSIN.

3 Graduate Students, 1896-7.

CHARLES R. VAN HISE, Prof. of Geology.

B. Met. E., Wis., '79, and M.S., '82; Instr. in Metallurgy, same, '79-'83; Asst. Prof., '82-4; Prof., '84-'8; Prof. Archæan and Applied Geology, '88-'92; Prof. Geol., '92; Ph.D., Wis., '92; Geologist, U. S. Geol. Survey.
 Physical and Pre-Cambrian Geol. ii, 36.

Wisconsin — Continued.

[Princ. of Metamorphism and Metamorphic Rocks. ii, 36.]
 Detailed Mapping of Pre-Cambrian Districts in Wis. ii-iii, 30.

J. MORGAN CLEMENTS, Asst. Prof. of Geol.

Ph.D., Leipzig, '90; Asst. Geologist, U. S. Geol. Survey.

*Invertebrate Palaeontology. iii, 36.

WILLIAM H. HOBBS, Asst. Prof. of Mineral. and Petrol.

Ph.D., Johns Hopkins, '88; Asst. Geol., U. S. Geol. Survey.

*Petrology. v, 36.

Adv. Mineralogy. iii-v, 36.

Petrology of Pre-Cambrian Districts in Wis. ii-iii, 36.

YALE.

10 Graduate Students, 1896-7.

H. S. WILLIAMS, Prof. of Geol.

Ph.B., Yale, '68, and Ph.D., '71; Prof. Geol. and Palaeontol., Cornell; U. S. Geol. Survey.

Geological Biology. —?

*Philos. of Life and Organism. ii, 16, O.-F.

*Geology, ii, 32.

W. H. BREWER, Prof. of Agriculture.

Ph.B., Yale, '52; Ph.D., Washington and Jeff., '80; Prof. Nat. Sci., Wash. Col.

*Physical Geog. iii, 16, O.-F.

E. S. DANA, Prof. of Physics.

A.B., Yale, '70, A.M., '74, and Ph.D., '76.

Mineralogy and Crystallography. i, 32.

S. L. PENFIELD, Prof. of Mineral.

Ph.B., Yale, '77.

Mineralogy. iii, 12, O.-D.

Determinative Mineral. iii, 32.

Descr. Mineral. ii, 20, Ja.-Jun.

Orig. Invest. in Min. and Crystall. —?

Crystallography. ii, 20, Ja.-Jun.

L. V. PIRSSON, Asst. Prof. of Inorg. Geol.

Ph.B., Yale, '82.

Petrology. xxiv, 32.

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*Structural and Dynam. Geol. (el). iii, 16, O.-F.

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